

Annual Author-Title Index

Astronomy and Astrophysics, Volumes 267–280 (1993)

Supplement Series, Volumes 97–102 (1993)

Volume and page numbers of articles published in the Supplement Series are printed in *italics*

- Aaquist, O.B.: Detailed radio morphology of the compact nebula K 3-35 **267**, 260
- Aarts, H., see Bennett, K., et al. **272**, 742 (**97**, 317)
- Aarts, H.J.M., see Schönfelder, V., et al. **272**, 725 (**97**, 27)
- Aarts, H.J.M., see Connors, A., et al. **272**, 728 (**97**, 75)
- Aarts, H.J.M., see Hermsen, W., et al. **272**, 730 (**97**, 97)
- Abad, C.: Determination of field distortion by a plate-overlap method **273**, 350 (**98**, 1)
- Aballe Villero, M.A., Marco, E., Vázquez, M., García de la Rosa, J.L.: On the correlation of power in sunspot umbral oscillations with continuum brightness **267**, 275
- Abdussamatov, H.I.: The fine structure of solar granulation and its relationship to large-scale photospheric structures **272**, 580
- Abgrall, H., Roueff, E., Launay, F., Roncin, J.-Y., Subtil, J.-L.: Table of the Lyman band system of molecular hydrogen **279**, 336 (**101**, 273)
- Abgrall, H., Roueff, E., Launay, F., Roncin, J.-Y., Subtil, J.-L.: Table of the Werner band system of molecular hydrogen **279**, 337 (**101**, 323)
- Abia, C., Boffin, H.M.J., Isern, J., Rebolo, R.: Lithium abundances in a flux-limited sample of galactic carbon stars **272**, 455
- Abia, C., Isern, J., Canal, R.: On the Li production by galactic C stars **275**, 96
- Abia, C., see Boffin, H.M.J., et al. **280**, 347 (**102**, 361)
- Ábrahám, P., Kun, M., Balázs, L.G., Holl, A., Frontó, A.: Infrared environment of 6 Cephei **268**, 230
- Abraham, Z., see Carrara, E.A., et al. **279**, 83
- Abramowicz, M.A., Bao, G., Karas, V., Lanza, A.: Similarity of the variability patterns in the Exosat and Ginga folded light curves of the Seyfert galaxy NGC 6814 **272**, 400
- Achatz, U., Schlickeiser, R.: Electromagnetic stability of electron-positron beams **274**, 165
- Achmad, L., de Jager, C., Nieuwenhuijzen, H.: A statistical study of the distribution of stars in the $\log T_{\text{eff}}-\log g_N$ plane **277**, 361 (**100**, 465)
- Achmad, L., see Nieuwenhuijzen, H., et al. **280**, 195
- Achterberg, A., see Schramkowski, G.P. **280**, 313
- Acker, A., see Cuisinier, F., et al. **277**, 203
- Acker, A., see Tytenda, R., et al. **280**, 349 (**102**, 595)
- Acuna, M.H., see Neubauer, F.M., et al. **268**, L5
- Adelman, S.J.: *uvby* photometry of the suspected variable stars 53 Tauri, 68 Tauri, HR 4072, and HR 6096 **269**, 411
- Adelman, S.J., Pyper, D.M.: Spectrophotometry of peculiar B and A stars. XIX. Variability of the magnetic CP stars **279**, 337 (**101**, 393)
- Aerts, C., Waelkens, C.: Line profile variations of rotating, pulsating stars **273**, 135
- Aerts, C., see Reid, A.H.N. **279**, L25
- Aerts, C., see De Pauw, M., et al. **280**, 493
- Afanasyev, V., see Olive, J.-F., et al. **272**, 743 (**97**, 325)
- Ageorges, N., Cruzalèbes, P., Schumacher, G.: Image reconstruction by redundant spacing calibration with a 3-telescope optical interferometer: constraints on the delay lines **271**, 373
- Agrawal, P.C., see Chitnis, V.R., et al. **268**, 609
- Agrinier, B., see Olive, J.-F., et al. **272**, 742 (**97**, 321)
- Agrinier, B., see Olive, J.-F., et al. **272**, 743 (**97**, 335)
- Aikawa, T., see Antonello, E. **279**, 119
- Akabane, T., Iwasaki, K., Saito, Y., Narumi, Y.: Martian late-northern-winter polar hood opacities and non-visibility of a surface cap: 1975 and 1990 observations **277**, 302
- Akalin, A., see Demircan, O., et al. **274**, 1013 (**98**, 583)
- Akan, M.C., see İbanoğlu, C., et al. **269**, 310
- Akan, M.C.: Pulsational behaviour of 44 Tauri **278**, 150
- Akerlof, C.W., Breslin, A.C., Cawley, M.F., Chantell, M., Fegan, D.J., Fennell, S., Gaidos, J.A., Hagan, J., Hillas, A.M., Kerrick, A.D., Lamb, R.C., Lawrence, M.A., Lewis, D.A., Meyer, D.I., Mohanty, G., O'Flaherty, K.S., Punch, M., Reynolds, P.T., Rovero, A.C., Schubnell, M.S., Sembroski, G., Weekes, T.C., West, M., Whitaker, T., Wilson, C.: Search for TeV gamma-rays from Geminga **274**, L17
- Akimov, V., see Olive, J.-F., et al. **272**, 743 (**97**, 325)
- Akimov, V.V., see Leikov, N.G., et al. **272**, 744 (**97**, 345)
- Akujor, C.E., Spencer, R.E., Zhang, F.J., Fanti, C., Ludke, E., Garington, S.T.: 3C 138: multi-frequency observations of the suggested "naked-jet" compact steep-spectrum source **274**, 752
- Alberdi, A., Krichbaum, T.P., Marcaide, J.M., Witzel, A., Graham, D.A., Inoue, M., Morimoto, M., Booth, R.S., Rönnäng, B.O., Colomer, F., Rogers, A.E.E., Zensus, J.A., Readhead, A.C.S., Lawrence, C.R., Vermeulen, R., Bartel, N., Shapiro, I.I., Burke, B.F.: First 7 mm VLBI observations of the peculiar superluminal radio source 4C 39.25 **271**, 93
- Alberdi, A., see Krichbaum, T.P., et al. **274**, L37
- Alberdi, A., see Gómez, J.L., et al. **274**, 55
- Alberdi, A., Lara, L., Marcaide, J.M., Elósegui, P., Shapiro, I.I., Cotton, W.D., Diamond, P.J., Romney, J.D., Preston, R.A.: VLBA image of Sgr A* at $\lambda = 1.35$ cm **277**, L1
- Alberdi, A., see Jackson, N., et al. **280**, 128
- Albinson, J.S., see Evans, A., et al. **267**, 161
- Albinson, J.S., see Weight, A., et al. **268**, 294
- Albrecht, M.A., see Kegel, W.H., et al. **270**, 407
- Albrecht, R., see Barbieri, C., et al. **273**, 1
- Alcalá, J.M., Covino, E., Franchini, M., Krautter, J., Terranegra, L., Wichmann, R.: T Chamaeleontis: a "weak-line" YY Orionis star? **272**, 225
- Alecian, G., see Puy, D., et al. **267**, 337
- Alissandrakis, C.E., Gelfreikh, G.B., Borovik, V.N., Korzhavin, A.N., Bogod, V.M., Nindos, A., Kundu, M.R.: Spectral observations of active region sources with RATAN-600 and WSRT **270**, 509
- Alissandrakis, C.E., see Tsiropoulou, G., et al. **271**, 574
- Alissandrakis, C.E., see Stathopoulou, M. **274**, 555
- Alissandrakis, C.E., see Bratsolis, E., et al. **274**, 940
- Alissandrakis, C.E., see Dara, H.C., et al. **277**, 648
- Allen, R.J., see Neiningner, N., et al. **274**, 687
- Allen, R.J., see Tilanus, R.P.J. **274**, 707
- Ailin, R.J., see Lequeux, J., et al. **280**, 23
- Alloin, D., see Wanders, I., et al. **269**, 39
- Alloin, D., see Prugniel, P., et al. **273**, 353 (**98**, 229)
- Alongi, M., Bertelli, G., Bressan, A., Chiosi, C., Fagotto, F., Greggio, L., Nasi, E.: Evolutionary sequences of stellar models with semi-convection and convective overshoot. I. $Z=0.008$ **272**, 754 (**97**, 851)
- Alpar, M.A., Ögelman, H., Shaham, J.: Is Geminga a glitching pulsar? **273**, L35

- Alpar, M.A., see Datta, B. 275, 210
- Altieri, B., see Melnick, J., et al. 271, L5
- Altieri, B., see Gopal-Krishna, et al. 271, 89
- Altieri, B., see Gopal-Krishna, et al. 280, 360
- Altwegg, K., Balsiger, H., Geiss, J., Goldstein, R., Ip, W.-H., Meier, A., Neugebauer, M., Rosenbauer, H., Shelley, E.: The ion population between 1300 km and 230 000 km in the coma of comet P/Halley 279, 260
- Alurkar, S.K., see Janardhan, P. 269, 119
- Alvarez, H., Aparici, J., May, J., Navarrete, M.: The optical identification of the luminous radio galaxy 0409-752 271, 435
- Alvarez, H., see May, J., et al. 274, 1015 (99, 103)
- Alvarez, M., see Echevarría, J. 275, 187
- Amata, E., see Johnstone, A.D., et al. 273, L1
- Amer, M.A., Kneer, F.: High spatial resolution spectro-polarimetry of small-scale magnetic elements on the Sun 273, 304
- Amy, S.W., see Zwarthod, G.A.A., et al. 267, 101
- Anandaro, B.G., Pottasch, S.R., Vaidya, D.B.: Circumstellar dust in Mira variables and the mass loss mechanisms 273, 570
- Anastasiadis, A., Vlahos, L.: Particle acceleration by multiple shocks at the hot spots of extragalactic radio sources 275, 427
- Andersen, J., see Edvardsson, B., et al. 275, 101
- Andersen, J., Clausen, J.V., Giménez, A.: Absolute dimensions of eclipsing binaries. XX. GG Lupi: young metal-deficient B stars 277, 439
- Andersen, J., see Edvardsson, B., et al. 280, 349 (102, 603)
- Anderson, N., Watson, W.D.: Alignment of dust grains in ionized regions 270, 477
- Anderson, T., see Jacq, T., et al. 271, 276
- Ando, H., see Kambe, E., et al. 273, 435
- Andredakis, Y., see Xilouris, K.M., et al. 270, 393
- Andreon, S.: X-ray luminosity and spiral fraction of nearby clusters of galaxies. Astrophysical consequences of an observational bias 276, L17
- Andrews, A.D., Stanek, K.Z.: Investigation of micro-flaring and secular and quasi-periodic variations in dMe stars. VIII. Phase summation techniques in spectroscopy of Gl 735 279, 197
- Andrillat, Y., see Jaschek, M., et al. 272, 752 (97, 781)
- Angebault, L.P., see Vermeulen, R.C., et al. 270, 204
- Angelini, L., see Parmar, A.N., et al. 279, 179
- Annu, K., Kolka, I., Leedjäär, L.: Nova Cygni 1992 in the post-maximum period 269, L5
- Anton, K.: Optical spectroscopy of the emission-line gas in the center of A 1795 270, 60
- Anton, K., see Wagner, S.J., et al. 271, 344
- Anton, K., see Sterken, C., et al. 280, 344 (102, 79)
- Antonello, E., Aikawa, T.: Nonlinear models of first overtone mode Cepheids 279, 119
- Antonello, E.: The asymmetry parameter $M-m$ of the light curves of Cepheids in the Galaxy and Magellanic Clouds 279, 125
- Aparici, J., see Alvarez, H., et al. 271, 435
- Aparicio, J.M., Isern, J.: Oscillating Urca process in mass-accreting white dwarfs 272, 446
- Apparao, K.M.V.: TeV gamma ray burst from SN 1987 A 268, 607
- Appl, S., Camenzind, M.: Self-collimated jets beyond the light cylinder 270, 71
- Appl, S., Camenzind, M.: The structure of relativistic MHD jets: a solution to the nonlinear Grad-Shafranov equation 274, 699
- Appleby, G., see Hubbard, W.B., et al. 269, 541
- Aquilini, E., see de Bernardis, P., et al. 271, 683
- Aref'ev, V.A., see Sunyaev, R.A., et al. 280, L1
- Arellano Ferro, A., see Zsoldos, E., et al. 275, 484
- Arexaga, I., see Wanders, I., et al. 269, 39
- Arimoto, N., see Bounatiro, L. 268, 829
- Arlot, J.-E., see Lecavelier des Etangs, A., et al. 274, 877
- Arlot, J.E., see Hubbard, W.B., et al. 269, 541
- Arnaboldi, M., Capaccioli, M., Cappellaro, E., Held, E.V., Sparke, L.: Studies of narrow polar rings around E galaxies. I. Observations and model of AM 2020-504 267, 21
- Arnaboldi, M., Capaccioli, M., Barbaro, G., Buson, L., Longo, G.: Studies of narrow polar rings around E galaxies. II. The UV spectrum of AM 2020-504 268, 103
- Arnaboldi, M., Galletta, G.: Kinematical models of warped disks 268, 411
- Arnould, M., see Boffin, H.M.J., et al. 279, 173
- Artru, M.-C., see Lanz, T., et al. 272, 465
- Ashman, K.M., see Persic, M., et al. 279, 343
- Aslan, Z.: On the cause of luminosity-colour variation in the active binary system DH Leonis 273, L47
- Aslanov, A.A., Cherepashchuk, A.M., Goranskij, V.P., Rakhimov, V.Y., Vermeulen, R.C.: Multicolour photometry of SS 433 during the monitoring campaign in May/June 1987 270, 200
- Aspin, C., Schwarz, H.E., Smith, M.G., Corradi, R.L.M., Mountain, C.M., Wright, G.S., Ramsay, S.K., Robertson, D., Beard, S.M., Pickup, D.A., Geballe, T.R., Bridger, A., Laird, D., Montgomery, D., Glendinning, R., Pentland, G., Griffin, J.L., Aycok, J.: Near-IR spectroscopy and imaging photometry of M 1-16: bipolar H₂ jets in a post-AGB transition object 278, 255
- Assendorp, R., Wesseli, P.R.: IRAS pointed observations data processing 277, 361 (100, 473)
- Athanassoula, E., see García Gómez, C. 276, 330 (100, 431)
- Athanassoula, E., García Gómez, C., Bosma, A.: Analysis of the H II region distribution in external galaxies. III. Global properties and the radial distribution 280, 345 (102, 229)
- Atteia, J.-L.: Gamma-ray burst observations 272, 726 (97, 35)
- Atteia, J.-L., see Lestrade, J.P., et al. 272, 728 (97, 79)
- Atteia, J.-L., Dezalay, J.P.: Gamma-ray bursters in the galactic disk? 274, L1
- Atteia, J.L., see Sunyaev, R., et al. 272, 729 (97, 85)
- Auer, L.H., see Paletou, F., et al. 274, 571
- Augarde, R., see Cananzi, K., et al. 279, 678 (101, 599)
- Augusteijn, T., van Kerwijk, M.H., van Paradijs, J.: A 59^m photometric period in the dwarf nova V 485 Centauri 267, L55
- Augusteijn, T., see Greve, A., et al. 275, 356 (99, 577)
- Augusteijn, T., Kuulkers, E., Shaham, J.: "Glitches" in soft X-ray transients: Echoes of the main burst? 279, L13
- Aurière, M., see Ilvasky, S.A., et al. 270, 139
- Aurière, M., see Lauzeral, C., et al. 274, 214
- Avgoloupis, S., see Doyle, J.G., et al. 278, 499
- Avgoloupis, S., see Mavridis, L.N. 280, L5
- Axer, M., see Fuhrmann, K., et al. 271, 451
- Axon, D., see Wanders, I., et al. 269, 39
- Axon, D.J., see Shaw, M.A., et al. 273, 31
- Aycok, J., see Aspin, C., et al. 278, 255
- Azcárate, I.N., see Silva, A.M., et al. 275, 510
- Azzopardi, M., see Rebeiro, E., et al. 272, 751 (97, 603)
- Azzopardi, M., see Meyssonier, N., et al. 280, 346 (102, 251)
- Azzopardi, M., see Meyssonier, N. 280, 349 (102, 451)
- Baade, D., Bardelli, S., Beaulieu, J.P., Vogel, S.: A spectroscopic search for nonradial pulsations in the δ Scuti stars δ Delphini and ϵ Cephei 269, 195
- Baade, D., see Hillier, D.J., et al. 276, 117
- Baade, D., see Danziger, I.J., et al. 276, 382
- Baas, F., see Groenewegen, M.A.T., et al. 279, 676 (101, 513)
- Bááth, L.B., see Lerner, M.S., et al. 280, 117
- Bachiller, R., Huggins, P.J., Cox, P., Forveille, T.: The spatio-kine-

- matic structure of the CO envelopes of evolved planetary nebulae **267, 177**
- Bachiller, R., see Juan, J., et al. **270, 432**
- Bachiller, R., see Fuente, A., et al. **276, 473**
- Backer, D.C., see Lerner, M.S., et al. **280, 117**
- Bade, N., see Heber, U., et al. **267, L31**
- Bade, N., see Schramm, K.-J., et al. **278, 391**
- Badiali, M., see Bernacca, P.L., et al. **278, L47**
- Baernbantner, O., see Wolf, S., et al. **273, 160**
- Baffa, C., Chincarini, G., Henry, R.B.C., Manousoyanaki, J.: Peculiar motions in superclusters: Perseus – Pisces **280, 20**
- Bagenal, F., see Leblanc, Y., et al. **276, 603**
- Baglin, A., see Goupil, M.J., et al. **268, 546**
- Bailion, P., Bouquet, A., Giraud-Héraud, Y., Kaplan, J.: Detection of brown dwarfs by the micro-lensing of unresolved stars **277, 1**
- Baize, P.: Orbital elements of 19 double stars (*Text in French*) **275, 353 (99, 205)**
- Bajaja, E., see Berkhuijsen, E.M., et al. **279, 359**
- Balázs, L.G., see Pásztor, L., et al. **268, 108**
- Balázs, L.G., see Ábrahám, P., et al. **268, 230**
- Balcells, M., Carter, D.: High-resolution rotation curves of NGC 7626: dynamics of a young kinematically peculiar core **279, 376**
- Baldazzi, G., see Caroli, E., et al. **272, 746 (97, 393)**
- Balick, B., Mellema, G., Frank, A.: Numerically efficient expressions for nebular line cooling **275, 588**
- Balkowski, C., see Boisson, C., et al. **277, 363 (100, 583)**
- Ballester, J.L., see Oliver, R., et al. **273, 647**
- Ballester, J.L., see Carbonell, M., et al. **274, 497**
- Ballet, J., see Mandrou, P., et al. **272, 724 (97, 1)**
- Ballet, J., see Bassani, L., et al. **272, 729 (97, 89)**
- Ballet, J., see Lei, F., et al. **272, 735 (97, 189)**
- Ballet, J., see Grebenev, S., et al. **272, 740 (97, 281)**
- Ballet, J., see Goldwurm, A., et al. **272, 741 (97, 293)**
- Ballet, J., see Gilfanov, M., et al. **272, 741 (97, 303)**
- Ballet, J., see Cordier, B., et al. **275, L1**
- Bally, J., see Dutrey, A., et al. **270, 468**
- Balsiger, H., see Altwegg, K., et al. **279, 260**
- Balthasar, H., Wiehr, E., Schleicher, H., Wöhl, H.: Doppler oscillations in solar prominences simultaneously observed with two telescopes. Discovery of a 30 s oscillation **277, 635**
- Balthasar, H., Schmidt, W.: Polarimetry and spectroscopy of a simple sunspot. II. On the height and temperature dependence of the magnetic field **279, 243**
- Bandiera, R.: Modelling non-axisymmetric bow shocks **276, 648**
- Banfi, M., Rampazzo, R., Chincarini, G., Henry, R.B.C.: H II regions in spiral galaxies: positions, luminosity function and diameter distribution **280, 373**
- Bania, T.M., see Hüttemeister, S., et al. **280, 255**
- Banks, T., see Vilhu, O., et al. **278, 467**
- Bao, G., see Abramowicz, M.A., et al. **272, 400**
- Baptista, R., Steiner, J.E.: Improving the eclipse mapping method **277, 331**
- Baraffe, I., Takahashi, K.: Contribution to the heavy-element abundances in the Galactic halo from s-process nucleosynthesis in massive stars **280, 476**
- Baranov, V.B., Lebedev, M.G.: The interaction between the solar wind and the comet P/Halley atmosphere: observations versus theoretical predictions **273, 695**
- Barat, C.: Observations of gamma-ray burst spectra between 5 keV and 100 MeV **272, 727 (97, 43)**
- Barat, C., see Lestrade, J.P., et al. **272, 728 (97, 79)**
- Barat, C., see Trotter, G., et al. **272, 743 (97, 337)**
- Baratta, G.A., see Jenniskens, P., et al. **273, 583**
- Baratta, G.B., see Damineli Neto, A., et al. **268, 183**
- Barbá, R.: New optical spectrographic observations of W Serpentis **269, 390**
- Barbaro, G., see Arnaboldi, M., et al. **268, 103**
- Barbaro, G., see Bernacca, P.L., et al. **278, L47**
- Barbera, M., see Favata, F., et al. **277, 428**
- Barbieri, C., Rafanelli, P., Schulz, H., Albrecht, R., Blades, J.C., Boksenberg, A., Crane, P., Deharveng, J.M., Disney, M.J., Jakobsen, P., Kamperman, T.M., King, I.R., Macchetto, F., Mackay, C.D., Paresce, F., Weigelt, G., Baxter, D., Greenfield, P., Jedrzejewski, R., Nota, A., Sparks, W.B.: Compact subarcsec structures of the double nucleus of NGC 6240 revealed with HST **273, 1**
- Barbon, R., see Patat, F., et al. **274, 1011 (98, 443)**
- Barbuy, B., see Ortolani, S., et al. **267, 66**
- Barbuy, B., see Gregorio-Hetem, J., et al. **268, L25**
- Barbuy, B., see Bica, R., et al. **270, 117**
- Barbuy, B., see de Freitas Pacheco, J.A., et al. **271, 429**
- Barbuy, B., see Spite, F., et al. **272, 116**
- Barbuy, B., see Ortolani, S., et al. **273, 415**
- Barbuy, B., see Bica, E., et al. **277, 360**
- Barbuy, B., Schiavon, R.P., Gregorio-Hetem, J., Singh, P.D., Batalha, C.: Intensity of CaH lines in cool dwarfs **279, 338 (101, 409)**
- Bardelli, S., see Baade, D., et al. **269, 195**
- Barnéoud, R., see Demers, S., et al. **275, 355 (99, 437)**
- Barnéoud, R., see Demers, S., et al. **275, 355 (99, 461)**
- Barnett, E.W., see McKeith, C.D., et al. **273, 331**
- Barouch, E., see Olive, J.F., et al. **272, 742 (97, 321)**
- Barouch, E., see Olive, J.-F., et al. **272, 743 (97, 325)**
- Barouch, E., see Olive, J.F., et al. **272, 743 (97, 335)**
- Barrado, D., see Fernández-Figueroa, M.J., et al. **274, 373**
- Barret, D., see Laurent, P., et al. **272, 737 (97, 225)**
- Barret, D., Mandrou, P., Roques, J.P., Denis, M., Lebrun, F., Claret, A., Goldwurm, A., Laurent, P., Churazov, E., Gilfanov, M., Sunyaev, R., Bogomolov, A., Khavenson, N., Kuleshova, N., Tserenin, I., Sukhanov, K.: SIGMA observations of two X-ray transients: KS 1731-260 and TrA X-1 **272, 738 (97, 241)**
- Barret, D., see Denis, M., et al. **272, 743 (97, 333)**
- Barret, D., see Laurent, P., et al. **278, 444**
- Barrett, P., see Evans, A., et al. **267, 161**
- Barrientos, C., see Martin, I., et al. **277, 363 (100, 595)**
- Barrow, C.H., Lecacheux, A.: Radio emission from Jupiter observed by Ulysses before and after encounter **271, 335**
- Barstow, M.A., see Napiwotzki, R., et al. **278, 478**
- Bartel, N., see Alberdi, A., et al. **271, 93**
- Bartel, N., see Krichbaum, T.P., et al. **274, L37**
- Bartelmann, M., Schneider, P.: Large-scale correlations between QSOs and galaxies. An effect caused by gravitational lensing? **268, 1**
- Bartelmann, M., Schneider, P.: Large-scale QSO–galaxy correlations revisited **271, 421**
- Bartelmann, M.: Consequences of cluster evolution for the statistics of giant luminous arcs **276, 9**
- Bartelmann, M., Ehlers, J., Schneider, P.: Timescales of isotropic and anisotropic cluster collapse **280, 351**
- Barthel, P.D., see Venturi, T., et al. **271, 65**
- Bartunov, O.S., see Cappellaro, E., et al. **268, 472**
- Bartunov, O.S., see Cappellaro, E., et al. **273, 383**
- Bartunov, O.S., see Blinnikov, S.I. **273, 106**
- Barwig, H., see Wolf, S., et al. **273, 160**
- Barylak, M., see Doazan, V., et al. **269, 415**
- Barzowski, A., see Sterken, C., et al. **280, 344 (102, 79)**
- Bashkirtsev, V.S., Mashnich, G.P.: Some regularities of velocity oscillations in prominences **279, 610**

- Bassani, L., see Mandrou, P., et al. 272, 724 (97, 1)
- Bassani, L., Jourdain, E., Roques, J.P., Mandrou, P., Ballet, J., Cordier, B., Lebrun, F., Paul, J., Finogenov, A., Churazov, E., Gilfanov, M., Sunyaev, R., Dyachkov, A., Khavenson, N., Novikov, B., Kuleshova, N.: SIGMA observations of extragalactic sources 272, 729 (97, 89)
- Bassani, L., see Ubertini, P., et al. 272, 746 (97, 389)
- Bassani, L., see Caroli, E., et al. 272, 746 (97, 393)
- Bastian, T.S., see Lecacheux, A., et al. 275, 670
- Bastian, U., see Bernacca, P.L., et al. 278, L47
- Basu, D., Valtonen, M.J., Valtonen, H., Mikkola, S.: Jets from mergers of binary black holes 272, 417
- Batalha, C., see Barbuer, B., et al. 279, 338 (101, 409)
- Bates, B., Kemp, S.N., Montgomery, A.S.: High resolution Na D and H α line profiles of stars in the globular clusters M 22 and ω Centauri 272, 755 (97, 937)
- Bates, B., see Kemp, S.N., et al. 278, 542
- Batsleer, P., Dejonghe, H.: The Kuzmin-Kutuzov two integral axisymmetric galaxy model revisited 271, 104
- Battaner, E., see Garrido, J.L., et al. 271, 84
- Battinelli, P., see Magnier, E.A., et al. 278, 36
- Battistini, P.L., Bönoli, F., Casavecchia, M., Ciotti, L., Federici, L., Fusi Pecci, F.: New globular cluster candidates in the inner regions of M 31 and the projected density profile of the cluster system 272, 77
- Baudin, F., Gabriel, A., Gibert, D.: A new method for helioseismic data analysis 276, L1
- Baudrand, J., see Catala, C., et al. 275, 245
- Baudry, A., Menten, K.M., Walmsley, C.M., Wilson, T.L.: VLA observations of the 8 GHz rotationally excited OH lines toward W3(OH) 271, 552
- Baudry, A., see Henkel, C., et al. 273, L15
- Baudzus, M., see Hanuschik, R.W., et al. 274, 356
- Baxter, D., see Barbieri, C., et al. 273, 1
- Baykal, A., Ögelman, H.: An empirical torque noise and spin-up model for accretion-powered X-ray pulsars 267, 119
- Bazer-Bachi, A.R., see Leikov, N.G., et al. 272, 744 (97, 345)
- Bazer-Bachi, R., see Goret, P., et al. 270, 401
- Bazer-Bachi, R., see Olive, J.-F., et al. 272, 743 (97, 325)
- Bazzano, A., see Ubertini, P., et al. 272, 730 (97, 105)
- Bazzano, A., Cocchi, M., La Padula, C., Sood, R., Ubertini, P.: Hard X-ray observation of GRS 1758-258 272, 734 (97, 169)
- Bazzano, A., see Ubertini, P., et al. 272, 746 (97, 389)
- Beard, S.M., see Aspin, C., et al. 278, 255
- Beaulieu, J.P., see Baade, D., et al. 269, 195
- Beaulieu, J.P., see Pakull, M.W., et al. 278, L39
- Bec-Borsenberger, A.: Ephemerides of the 48 Hipparcos minor planets for the year 1993 273, 351 (98, 77)
- Beck, R., see Ehle, M. 273, 45
- Beck, R., see Neininger, N., et al. 274, 687
- Beck, R., see Berkhuijsen, E.M., et al. 279, 359
- Becker, R., Henkel, C., Wilson, T.L., Wouterloot, J.G.A.: H $_2$ O masers in nearby irregular galaxies 268, 483
- Becker, W., Brazier, K.T.S., Trümper, J.: Geminga: relative phases of the X-ray and γ -ray pulses 273, 421
- Becklin, E.E., see Harrison, R.A., et al. 274, L9
- Beckman, J., see Char, S., et al. 276, 78
- Beckman, J.E., see García López, R.J., et al. 273, 482
- Beckman, J.E., see McKeith, C.D., et al. 273, 331
- Bednarek, W.: Can high-energy γ -ray photons escape from the radiation field emitted by an accretion disk? 278, 307
- Beisker, W., see Hubbard, W.B., et al. 269, 541
- Bel, N., Lafon, J.-P.J., Leroy, J.L.: Visual polarization measurements in the Cepheus flare 270, 444
- Belli, B.M.: Temporal structures in gamma-ray bursts 272, 727 (97, 63)
- Belloni, T., Verbunt, F., Schmitt, J.H.M.M.: ROSAT detection of stellar X-ray sources in the old open cluster M 67 269, 175
- Belloni, T., Hasinger, G., Pietsch, W., Mereghetti, S., Bignami, G.F., Caraveo, P.: ROSAT and optical observations of two X-ray transients: MX 0836-42 and GS 0834-430 271, 487
- Belloni, T., see van der Klis, M., et al. 279, L21
- Belmahdi, M., see Ferlet, R., et al. 267, 137
- Belmonte, J.A., see Vauclair, G., et al. 267, L35
- Belmonte, J.A., see Vidal, I. 274, 265
- Belskaya, I.N., Dovgopoli, A.N., Erikson, A., Lagerkvist, C.-I., Oja, T.: Physical studies of asteroids. XXVII. Photoelectric photometry of asteroids 14 Irene, 54 Alexandra and 56 Melete 279, 676 (101, 507)
- Belvedere, G., Lanzafame, G., Molteni, D.: The role of the secondary's rotation in disc formation and structure: an SPH three-dimensional analysis 280, 525
- Bender, R., see Saglia, R.P., et al. 279, 75
- Bendinelli, O., Ciotti, L., Parmeggiani, G.: Series inversion of Abel equation for very peaked profiles: the $R^{1/4}$ -law 279, 668
- Bendjoya, P., Cellino, A., Froeschlé, C., Zappalà, V.: Asteroid dynamical families: a reliability test for two identification methods 272, 651
- Bendjoya, P.: A classification of 6479 asteroids into families by means of the wavelet clustering method 280, 344 (102, 25)
- Bendlin, C., Volkmer, R.: Results from two-dimensional spectroscopic observations of solar granulation with a Fabry-Perot interferometer 278, 601
- Benest, D., Gonczi, R., Maury, A.: Dynamics of comet P/Maury 271, 621
- Benetti, S., see Cappellaro, E., et al. 268, 472
- Benetti, S., see Cappellaro, E., et al. 273, 383
- Benevides-Soares, P., Teixeira, R., Réquie, Y.: Spectrum of the Bordeaux transit circle residuals 278, 293
- Bennett, K., see Schönfelder, V., et al. 272, 725 (97, 27)
- Bennett, K., see Collmar, W., et al. 272, 728 (97, 71)
- Bennett, K., see Connors, A., et al. 272, 728 (97, 75)
- Bennett, K., see Hermesen, W., et al. 272, 730 (97, 97)
- Bennett, K., see Strong, A.W., et al. 272, 732 (97, 133)
- Bennett, K., see Diehl, R., et al. 272, 735 (97, 181)
- Bennett, K., see Lichti, G.G., et al. 272, 736 (97, 215)
- Bennett, K., Aarts, H., Bloemen, H., Bucchieri, R., Busetta, M., Collmar, W., Connors, A., Carramiñana, A., Cobbly, T., Diehl, R., de Boer, H., den Herder, J.W., Hermesen, W., Kuiper, L., Lockwood, J., Lichti, G.G., Macri, J., McConnell, M., Morris, D., Much, R., Ryan, J., Schönfelder, V., Simpson, G., Stacy, J.G., Steinle, H., Strong, A., Swanenburg, B.N., Taylor, B., Varendorff, M., de Vries, C., Webber, W., Winkler, C.: COMPTEL observations of the Crab and Vela pulsars 272, 742 (97, 317)
- Bentley, R.D., see Sylwester, B., et al. 267, 586
- Bentolila, C., see Friel, E., et al. 274, 825
- Benz, A.O., see Csillaghy, A. 274, 487
- Benz, A.O., see Schwarz, U., et al. 277, 215
- Benz, W., see Friedli, D. 268, 65
- Benz, W., see Davies, M.B., et al. 272, 430
- Bergeron, J., see Wampler, E.J., et al. 273, 15
- Bergeron, J., see Durret, F., et al. 273, 355 (98, 365)
- Bergeron, J., see Le Brun, V., et al. 279, 33
- Bergeson, S.D., see Bizzarri, A., et al. 273, 707
- Berghöfer, T., see Gochermann, J., et al. 275, 356 (99, 591)
- Bergman, P., Carlström, U., Olofsson, H.: Modelling of the CO emis-

- sion around the carbon star S Scuti **268**, 685
- Berkemann, U., see Gordon, M.A., et al. **280**, 208
- Berkhuijsen, E.M., Bajaja, E., Beck, R.: CO observations of a region of strongly polarized radio continuum emission in the SW arms of M 31 **279**, 359
- Bernacca, P.L., Lattanzi, M.G., Bucciarelli, B., Bastian, U., Barbaro, G., Pannunzio, R., Badiali, M., Cardini, D., Emanuele, A.: Hubble space telescope astrometric observations of pre-main sequence stars from the HIPPARCOS program **278**, L47
- Bernard, J.P., Boulanger, F., Puget, J.L.: Modeling of IR emission of interstellar clouds. II. Self-consistent models of individual nearby clouds **277**, 609
- Bernlöhr, K.: Models and observations of starbursts. II. Starbursts in interacting galaxies **268**, 25
- Bernlöhr, K.: Observations and starburst models of NGC 520 **270**, 20
- Berrington, K.A., see Hummer, D.G., et al. **279**, 298
- Bertaux, J.-L., see Quémerais, E. **277**, 283
- Bertelli, G., see Alongi, M., et al. **272**, 754 (**97**, 851)
- Bertelli, G., see Bressan, A., et al. **277**, 364 (**100**, 647)
- Bertelli, G., see Carraro, G., et al. **279**, 337 (**101**, 381)
- Bertello, L., Restaino, S.R.: Some evidence for large-scale motions on the Sun **273**, 260
- Berthomieu, G., Provost, J., Morel, P., Lebreton, Y.: Standard solar models with CESAM code: neutrinos and helioseismology **268**, 775
- Berthomieu, G., see Provost, J., et al. **274**, 595
- Berthomieu, G., see Loudagh, S., et al. **275**, L25
- Bertin, G., Pignatelli, E., Saglia, R.P.: X-ray emission and temperature profiles for optically selected models of elliptical galaxies **271**, 381
- Bertin, G., see Buson, L.M., et al. **280**, 409
- Bertin, P., see Lemoine, M., et al. **269**, 469
- Bertin, P., see Lallement, R., et al. **271**, 734
- Bertin, P., Lallement, R., Ferlet, R., Vidal-Madjar, A.: The Na I/Ca II ratio in the local interstellar medium **278**, 549
- Bertola, F., see Buson, L.M., et al. **280**, 409
- Bertotti, B., Comoretto, G., Iess, L.: Doppler tracking of spacecraft with multi-frequency links **269**, 608
- Bertout, C., see Malbet, F., et al. **271**, L9
- Bertout, C., see Terquem, C. **274**, 291
- Bertout, C., Bouvier, J., Duschl, W.J., Tscharnuter, W.M.: Accretion disks around T Tauri stars. IV. The disk-star boundary layer **275**, 236
- Bertsch, D.L., see Hunter, S.D., et al. **272**, 59
- Bertsch, D.L., see Fichtel, C.E., et al. **272**, 725 (**97**, 13)
- Bertsch, D.L., see von Montigny, C., et al. **272**, 730 (**97**, 101)
- Bertsch, D.L., see Kanbach, G., et al. **272**, 744 (**97**, 349)
- Bettoni, D., Galletta, G., Sage, L.J.: Detection of filaments of ionized gas in NGC 4684 **280**, 121
- Beuermann, K., see Schwöpe, A.D., et al. **267**, 103
- Beuermann, K., see Schwöpe, A.D., et al. **271**, L25
- Beuermann, K., see Schwöpe, A.D., et al. **278**, 487
- Beuermann, K., see Woelk, U. **280**, 169
- Beurle, K., Harper, D., Jones, D.H.P., Murray, C.D., Taylor, D.B., Williams, I.P.: Preliminary analysis of CCD observations of Saturn's satellites **269**, 564
- Beust, H., see Ferlet, R., et al. **267**, 137
- Beust, H., see Deleuil, M., et al. **267**, 187
- Beust, H., see Lecavelier des Etangs, A., et al. **274**, 877
- Bhat, C.L., see Kaul, C.L., et al. **272**, 501
- Bhat, P.N., see Vishwanath, P.R., et al. **267**, L5
- Bhatt, H.C., see Gorti, U. **270**, 426
- Bhatt, H.C., see Subramaniam, A., et al. **273**, 100
- Bhatt, H.C., Jain, S.K.: Polarization maps for the dark clouds B 227 and L 121 **276**, 507
- Bi Wang, see Qingyao Liu, et al. **279**, 336 (**101**, 253)
- Bianchi, L., see Pakull, M.W., et al. **278**, L39
- Bibo, A., see Sterken, C., et al. **280**, 344 (**102**, 79)
- Bica, E., see Ortolani, S., et al. **267**, 66
- Bica, E., see Ortolani, S., et al. **273**, 415
- Bica, E., see Prugniel, P., et al. **273**, 353 (**98**, 229)
- Bica, E., see Girardi, L. **274**, 279
- Bica, E., Ortolani, S., Barbuy, B.: NGC 6603: a young rich open cluster towards the bulge **277**, 360
- Bica, R., Ortolani, S., Barbuy, B.: NGC 6603: a young rich open cluster towards the bulge **270**, 117
- Biémont, E., Lowe, R.M.: Radiative lifetime measurements in Dy II and the solar abundance of dysprosium **273**, 665
- Biémont, E., see Hibbert, A., et al. **274**, 1016 (**99**, 177)
- Biémont, E., Quinet, P., Zeppen, C.J.: $\Delta n \leq 2$ allowed transitions in neutral sulphur within the visible and infrared spectral ranges **280**, 348 (**102**, 435)
- Bien, R., see Madejsky, R. **280**, 383
- Bienaymé, O.: Field astrometry using orthogonal functions **278**, 301
- Bienaymé, O., see Chareton, M., et al. **280**, 350 (**102**, 649)
- Biermann, P.L., see von Linden, S., et al. **269**, 169
- Biermann, P.L., see Falcke, H., et al. **270**, 102
- Biermann, P.L.: Cosmic rays. I. The cosmic ray spectrum between 10^4 GeV and $3 \cdot 10^9$ GeV **271**, 649
- Biermann, P.L., see Rachen, J.P. **272**, 161
- Biermann, P.L., see Rachen, J.P., et al. **273**, 377
- Biermann, P.L., see Stanev, T., et al. **274**, 902
- Biermann, P.L., Duschl, W.J., von Linden, S.: Molecular clouds close to the Galactic Center **275**, 153
- Biermann, P.L., Strom, R.G.: Cosmic rays. III. The cosmic ray spectrum between 1 GeV and 10^4 GeV and the radio emission from supernova remnants **275**, 659
- Biermann, P.L., Cassinelli, J.P.: Cosmic rays. II. Evidence for a magnetic rotator Wolf-Rayet star origin **277**, 691
- Biermann, P.L., see Falcke, H., et al. **278**, L1
- Biermann, P.L., see Niemeyer, M. **279**, 393
- Biermann, P.L., see von Linden, S., et al. **280**, 468
- Bignami, G.F., see Belloni, T., et al. **271**, 487
- Bignami, G.F., Caraveo, P.A., Mereghetti, S.: Optical observations of high energy sources **272**, 738 (**97**, 229)
- Billinghurst, M.N., Craig, I.J.D., Sneyd, A.D.: Current-sheet formation in two-dimensional coronal fields **279**, 589
- Binggeli, B., Popescu, C.C., Tammann, G.A.: The kinematics of the Virgo cluster revisited **273**, 354 (**98**, 275)
- Binggeli, B., Cameron, L.M.: Dwarf galaxies in the Virgo cluster. II. Photometric techniques and basic data **273**, 355 (**98**, 297)
- Bird, M.K., see Pätzold, M., et al. **268**, L13
- Biretta, J.A., see Conway, R.G., et al. **267**, 347
- Birkle, K., see Rafanelli, P., et al. **275**, 451
- Bisnovatyi-Kogan, G.S., Kahabka, P.: Period variations and phase residuals in freely precessing stars **267**, L43
- Bisnovatyi-Kogan, G.S.: Line formation and variability in spectra of gamma-ray bursts **272**, 728 (**97**, 65)
- Bisnovatyi-Kogan, G.S.: A self-consistent solution for an accretion disc structure around a rapidly rotating non-magnetized star **274**, 796
- Bisnovatyi-Kogan, G.S.: Planetary system around the pulsar PSR 1257+12 **275**, 161
- Bittner, C., see Hubbard, W.B., et al. **269**, 541

- Biviano, A., see Giuricin, G., et al. 275, 390
- Bizzarri, A., Huber, M.C.E., Noels, A., Grevesse, N., Bergeson, S.D., Tsekeris, P., Lawler, J.E.: Ti-II transition probabilities and radiative lifetimes in Ti^+ and the solar titanium abundance 273, 707
- Black, J.H., see Gredel, R., et al. 269, 477
- Blades, J.C., see Barbieri, C., et al. 273, 1
- Blair, D.G., Zadnik, M.G.: A list of possible interstellar communication channel frequencies for SETI 278, 669
- Blanchard, A., Buchert, T., Klaffl, R.: Can the neutrino picture be revived? QSO constraints revisited 267, 1
- Blanco, C., see Hubbard, W.B., et al. 269, 541
- Blecha, A., see Courtès, G., et al. 268, 419
- Blinnikov, S.I., Bartunov, O.S.: Non-equilibrium radiative transfer in supernova theory: models of linear type II supernovae 273, 106
- Blinnikov, S.I., Popov, D.V.: Analytic models for low-mass supernovae of type II 274, 775
- Blitz, L., see Brand, J. 275, 67
- Blochintsev, I., see Olive, J.-F., et al. 272, 743 (97, 325)
- Block, D.L., Geballe, T.R., Dyson, J.E.: An embedded cluster of stars at the Rosette GMC CO peak 273, L41
- Block, D.L., see Hanson, M.M., et al. 273, L44
- Bloemen, H., see Schönfelder, V., et al. 272, 725 (97, 27)
- Bloemen, H., see Collmar, W., et al. 272, 728 (97, 71)
- Bloemen, H., see Connors, A., et al. 272, 728 (97, 75)
- Bloemen, H., see Hermens, W., et al. 272, 730 (97, 97)
- Bloemen, H., see Strong, A.W., et al. 272, 732 (97, 133)
- Bloemen, H., see Diehl, R., et al. 272, 735 (97, 181)
- Bloemen, H., see Lichti, G.G., et al. 272, 736 (97, 215)
- Bloemen, H., see Bennett, K., et al. 272, 742 (97, 317)
- Bloemen, J.B.G.M., Dogiel, V.A., Dorman, V.L., Ptuskin, V.S.: Galactic diffusion and wind models of cosmic-ray transport. I. Insight from CR composition studies and γ -ray observations 267, 372
- Blommaert, J.A.D.L., van der Veen, W.E.C.J., Habing, H.J.: Candidate OH/IR stars in the outer parts of our Galaxy 267, 39
- Blondel, P.F.C., Talavera, A., Tjin A Djie, H.R.E.: Lyman α emission in spectra of Herbig Ae stars. An indication of accretion? 268, 624
- Blum, J., see Kozasa, T., et al. 276, 278
- Blum, P., Gangopadhyay, P., Ogawa, H.S., Judge, D.L.: Solar-driven neutral density waves 272, 549
- Bockelée-Morvan, D., see Crovisier, J., et al. 269, 527
- Bode, H.-J., see Hubbard, W.B., et al. 269, 541
- Boden, K.-P., Heithausen, A.: A multi-molecular study of the dense high-latitude cloud MCLD 126.6+24.5 268, 255
- Böhm, P., see Lorenz, H., et al. 277, L15
- Böhm, T., see Catala, C., et al. 278, 187
- Böhm, T., Catala, C.: A spectral atlas of the Herbig Ae star AB Aurigae. The visible domain from 391 to 874 nm 279, 678 (101, 629)
- Boehnhardt, H., see Jockers, K., et al. 268, L9
- Böhringer, H., see Schindler, S. 269, 83
- Böhringer, H., see Dorfi, E.A. 273, 251
- Böhringer, H., see Ebeling, H., et al. 275, 360
- Boer, B., Schulz, H.: NGC 6951: circumnuclear star formation around a Seyfert nucleus 277, 397
- Boer, M., see Hurley, K., et al. 272, 726 (97, 39)
- Boër, M., Greiner, J., Kahabka, P., Motch, C., Voges, W.: Gamma-ray burst quiescent counterparts in the ROSAT All-Sky Survey data 272, 728 (97, 69)
- Boër, M., Pizzichini, G., Hartmann, D., Hurley, K., Kouveliotou, C., Motch, C.: ROSAT-pointed observations of two gamma-ray burst error boxes 277, 503
- Boffin, H.M.J., Cerf, N., Paulus, G.: Statistical analysis of a sample of spectroscopic binaries containing late-type giants 271, 125
- Boffin, H.M.J., see Abia, C., et al. 272, 455
- Boffin, H.M.J., Paulus, G., Arnould, M., Mowlavi, N.: The explosive thermonuclear formation of ^7Li revisited 279, 173
- Boffin, H.M.J., Abia, C., Isern, J., Rebolo, R.: A catalogue of Li abundances and equivalent widths in a sample of galactic C-stars 280, 347 (102, 361)
- Bogod, V.M., see Alissandrakis, C.E., et al. 270, 509
- Bogomolov, A., see Mandrou, P., et al. 272, 724 (97, 1)
- Bogomolov, A., see Lei, F., et al. 272, 735 (97, 189)
- Bogomolov, A., see Barret, D., et al. 272, 738 (97, 241)
- Bogomolov, A., see Denis, M., et al. 272, 743 (97, 333)
- Bohigas, J., Persi, P., Tapia, M.: Bipolar structure of the Herbig-Haro object RNO 40 267, 168
- Bohlender, D.A., Landstreet, J.D., Thompson, I.B.: A study of magnetic fields in Ap Si and He weak stars 269, 355
- Bohme, D.K., see Petrie, S., et al. 271, 662
- Boissé, P., see Le Brun, V., et al. 279, 33
- Boisson, C., see Péquignot, D., et al. 271, 219
- Boisson, C., see Durret, F., et al. 273, 355 (98, 365)
- Boisson, C., Durret, F., Balkowski, C., Proust, D.: Infrared and optical photometry of galaxies in four clusters and of a sample of early-type galaxies 277, 363 (100, 583)
- Boksenberg, A., see Barbieri, C., et al. 273, 1
- Boller, T., Trümper, J., Molendi, S., Fink, H., Schaeidt, S., Caulet, A., Dennefeld, M.: Rapid X-ray variability in the I Zw 1 class object IRAS 13224-3809 279, 53
- Bomans, D.J., see Vallenari, A., et al. 268, 137
- Bomans, D.J., see de Boer, K.S., et al. 280, L15
- Bonazzola, S., Marck, J.A.: Efficiency of gravitational radiation from axisymmetric and 3 D stellar collapse. I. Polytropic case 267, 623
- Bonazzola, S.,ourgoulhon, E., Salgado, M., Marck, J.A.: Axisymmetric rotating relativistic bodies: a new numerical approach for "exact" solutions 278, 421
- Bondi, M., Gregorini, L., Padrielli, L., Parma, P.: Radio galaxies of intermediate strength. II. VLA observations 279, 338 (101, 431)
- Bonnet, H., Fort, B., Kneib, J.-P., Mellier, Y., Soucail, G.: Detection of weak lensing by a massive dark halo in Q 2345+007 280, L7
- Bönoli, F., see Battistini, P.L., et al. 272, 77
- Bönoli, F., see Federici, L., et al. 274, 87
- Bontekoe, T.R., see Prusti, T., et al. 279, 163
- Bookbinder, J., see Lecacheux, A., et al. 275, 670
- Booth, R.S., see Nyman, L.-Å., et al. 269, 377
- Booth, R.S., see Rubio, M., et al. 271, 1
- Booth, R.S., see Alberdi, A., et al. 271, 93
- Booth, R.S., see Krichbaum, T.P., et al. 274, L37
- Booth, R.S., see Krichbaum, T.P., et al. 275, 375
- Booth, R.S., see Israel, F.P., et al. 276, 25
- Booth, R.S., see Harju, J., et al. 278, 569
- Booth, R.S., see Lerner, M.S., et al. 280, 117
- Borg, H., see Johnstone, A.D., et al. 273, L1
- Borgeest, U., see von Linde, J., et al. 267, L23
- Borgeest, U., Mehlert, D.: A strong dependence of the narrow CIV absorption line density on the quasar emission redshift 275, L21
- Borgeest, U., see Schramm, K.-J., et al. 278, 391
- Borgnino, J., see Irbah, A., et al. 276, 663
- Borisov, N., see Vermeulen, R.C., et al. 270, 204
- Borovička, J., see Cepkecha, Z., et al. 279, 615
- Borovička, J.: A fireball spectrum analysis 279, 627
- Borovik, V.N., see Alissandrakis, C.E., et al. 270, 509
- Borozdin, K.N., see Nottingham, M.R., et al. 272, 734 (97, 165)
- Borozdin, K.N., see Pan, H.C., et al. 272, 740 (97, 273)
- Borozdin, K.N., see Sunyaev, R.A., et al. 280, L1

- Borra, E.F., see Lemelin, G., et al. 274, 983
- Borra, E.F.: On the correction of the aberrations of a liquid-mirror telescope observing at large zenith angles 278, 665
- Boscaleri, A., see de Bernardis, P., et al. 271, 683
- Bosio, M.A., see Clariá, J.J., et al. 274, 1014 (99, 1)
- Bosio, S., see Fulle, M., et al. 272, 634
- Bosma, A., see Athanassoula, E., et al. 280, 345 (102, 229)
- Bosma, P.B.: Anisotropic light scattering in a spherical shell 276, 303
- Bosma, P.B.: The intensity and state of polarization of light scattered in a spherical shell 279, 572
- Bossi, M., Guerrero, G., Zanin, F.: Stellar and circumstellar short period spectrovariability in the Be star 28 Cygni 269, 343
- Bottema, R.: The stellar kinematics of galactic disks 275, 16
- Bottinelli, L., see Garcia, A.M., et al. 272, 753 (97, 801)
- Bottinelli, L., see Garcia, A.M., et al. 273, 350 (98, 7)
- Bottinelli, L., Durand, N., Fouqué, P., Garnier, R., Gouguenheim, L., Loulergue, M., Paturel, G., Petit, C., Teerikorpi, P.: Observational data for the kinematics of the local universe. II. Second set of radial velocity measurements 280, 344 (102, 57)
- Bouchet, L., see Cordier, B., et al. 272, 277
- Bouchet, L., see Churazov, E., et al. 272, 734 (97, 173)
- Bouchet, L., see Cordier, B., et al. 272, 734 (97, 177)
- Bouchet, L., see Laurent, P., et al. 272, 737 (97, 225)
- Bouchet, L., see Goldwurm, A., et al. 272, 741 (97, 293)
- Bouchet, L., see Cordier, B., et al. 275, L1
- Bouchet, P., Danziger, I.J.: Infrared photometry and spectrophotometry of SN 1987 A. II. November 1987 to March 1991 observations 273, 451
- Bouchet, P., see Szeifert, T., et al. 280, 508
- Boudin, F., see Laskar, J., et al. 270, 522
- Boulanger, F., see Rubio, M., et al. 271, 1
- Boulanger, F., see Rubio, M., et al. 271, 9
- Boulanger, F., see Israel, F.P., et al. 276, 25
- Boulanger, F., see Bernard, J.P., et al. 277, 609
- Boulesteix, J., see Rosado, M., et al. 272, 541
- Bounatiro, L., Arimoto, N.: (RN) The initial mass function of the Coma Berenices open cluster (Mel 111) 268, 829
- Bounatiro, L.: Member stars of the open cluster Mel 111 in Coma Berenices (*Text in French*) 277, 362 (100, 531)
- Bounatiro, L.: *Erratum*: Member stars of the open cluster Mel 111 in Coma Berenices 277, 362 (102, 673)
- Bouquet, A., see Baillon, P., et al. 277, 1
- Bouquet, A.: Lensing of invisible stars by brown dwarfs 280, 1
- Bouvier, J., Cabrit, S., Fernández, M., Martín, E.L., Matthews, J.M.: COYOTES I: the photometric variability and rotational evolution of T Tauri stars 272, 176
- Bouvier, J., see Lagrange, A.M., et al. 274, 785
- Bouvier, J., see Bertout, C., et al. 275, 236
- Bouvier, J., Cabrit, S., Fernández, M., Martín, E.L., Matthews, J.M.: COYOTES I. Multisite *UBVRI* photometry of 24 pre-main-sequence stars of the Taurus-Auriga cloud 279, 675 (101, 485)
- Bowman, B., see Durouchoux, P., et al. 272, 735 (97, 185)
- Bowman, H.B., see Smith, D.M., et al. 272, 736 (97, 199)
- Boyce, P.J., Philipps, S., Davies, J.I.: Quasar – host galaxy detection using the cross-correlation technique 280, 694
- Bradt, H.V., Rothschild, R.E., Swank, J.H.: X-ray timing explorer mission 272, 745 (97, 355)
- Bragaglia, A., see Guarnieri, M.D., et al. 280, 348 (102, 397)
- Braine, J., Wiklund, T.: No molecular gas in M 87: just a monster? 267, L47
- Braine, J., Combes, F.: A CO(1-0) and CO(2-1) survey of nearby spiral galaxies. III. More H₂ gas in perturbed galaxies? 269, 7
- Braine, J., Combes, F., Casoli, F., Dupraz, C., Gérin, M., Klein, U., Wielebinski, R., Brouillet, N.: A CO(1-0) and CO(2-1) survey of nearby spiral galaxies. I. Data and observations 272, 754 (97, 887)
- Braine, J., Combes, F., van Driel, W.: NGC 4414: a flocculent galaxy with a high gas surface density 280, 451
- Brand, J., see Wouterloot, J.G.A., et al. 274, 1013 (98, 589)
- Brand, J., Blitz, L.: The velocity field of the outer Galaxy 275, 67
- Brand, J., see Palla, F., et al. 280, 599
- Brandenburg, A., see Pulkkinen, P., et al. 267, 265
- Brandenburg, A., Donner, K.J., Moss, D., Shukurov, A., Sokoloff, D.D., Tuominen, I.: Vertical magnetic fields above the discs of spiral galaxies 271, 36
- Brandt, S., Castro-Tirado, A.J., Lund, N., Dremine, V., Lapshov, I., Sunyaev, R.: Two transient X-ray sources observed with the WATCH experiment 272, 739 (97, 257)
- Brandt, S., see Castro-Tirado, A.J., et al. 272, 743 (97, 329)
- Brandt, S., see Castro-Tirado, A.J., et al. 276, L37
- Bratsolis, E., Dialelis, D., Alistandrakis, C.E.: A new determination of the mean lifetime of bright and dark chromospheric mottles 274, 940
- Braun, D., see Harrison, R.A., et al. 274, L9
- Braun, R., see van Woerden, H., et al. 269, 15
- Braun, R., Walterbos, R.A.M.: An atlas of supernova remnant candidates in Messier 31 273, 355 (98, 327)
- Bravo, E., Domínguez, I., Isern, J., Canal, R., Höflich, P., Labay, J.: On the photometric homogeneity of Type Ia Supernovae 269, 187
- Bravo, E., Isern, J., Canal, R.: The contribution of Type Ia supernovae to the galactic iron abundances 270, 288
- Braz, M.A., see David, P., et al. 273, 354 (98, 245)
- Brazier, K.T.S., see Becker, W., et al. 273, 421
- Breger, M., Stich, J., Garrido, R., Martin, B., Jiang Shi-yang, Li Zhi-ping, Hube, D.P., Ostermann, W., Paparo, M., Scheck, M.: Nonradial pulsation of the δ Scuti star BU Cancri in the Praesepe cluster 271, 482
- Breimer, T.G., Sanders, R.H.: Gravitational imaging by elliptical galaxies: the effects of dark halos 274, 96
- Breitfellner, M.G., Gillet, D.: Atmospheric motions in classical Cepheid stars. I. The star of reference: δ Cephei 277, 524
- Breitfellner, M.G., Gillet, D.: Atmospheric motions in classical Cepheid stars. II. The pre-resonance Cepheids: η Aquilae, S Sagittae 277, 541
- Breitfellner, M.G., Gillet, D.: Atmospheric motions in classical Cepheid stars. III. A very large amplitude star: X Cygni 277, 553
- Breitschwerdt, D., McKenzie, J.F., Völk, H.J.: Galactic winds. II. Role of the disk-halo interface in cosmic ray driven galactic winds 269, 54
- Breslin, A.C., see Akerlof, C.W., et al. 274, L17
- Bressan, A., see Alongi, M., et al. 272, 754 (97, 851)
- Bressan, A., Fagotto, F., Bertelli, G., Chiosi, C.: Evolutionary sequences of stellar models with new radiative opacities. II. $Z=0.02$ 277, 364 (100, 647)
- Bressan, A., see Carraro, G., et al. 279, 337 (101, 381)
- Bretagnon, P., see Brumberg, V.A., et al. 275, 651
- Breton, J., see Papoular, R., et al. 270, L5
- Bridger, A., see Aspin, C., et al. 278, 255
- Briel, U.G., see Henry, J.P., et al. 271, 413
- Briel, U.G., see Fink, H.H. 274, L45
- Briel, U.G., Henry, J.P.: X-ray emission from a complete sample of Abell clusters of galaxies 278, 379
- Brinkmann, W., see Polcaro, V.F., et al. 272, 732 (97, 139)
- Brinks, E., see Koribalski, B., et al. 268, 14

- Brock, M.N., see Fishman, G.J., et al. 272, 725 (97, 17)
- Bronfman, L., see May, J., et al. 274, 1015 (99, 103)
- Brookshaw, L., see Tavani, M. 267, L1
- Brosch, N., see Hubbard, W.B., et al. 269, 541
- Brosche, P., see Dick, W.R., et al. 279, 267
- Brouillet, N., see Braine, J., et al. 272, 754 (97, 887)
- Brouillet, N., see Henkel, C., et al. 273, L15
- Brouillet, N., Schilke, P.: The clouds of M 82. I. HCN in the southwest part 277, 381
- Brouw, W.N., see Wieringa, M.H., et al. 268, 215
- Brown, J.C., see Wood, K., et al. 271, 492
- Brown, P.J.F., see Rolleston, W.R.J., et al. 270, 107
- Brown, R.L., see Radford, S.J.E., et al. 271, L21
- Browne, I.W.A., see Jackson, N., et al. 274, 79
- Browne, I.W.A., see Jackson, N., et al. 280, 128
- Bruch, A., see Ratering, C., et al. 268, 694
- Bruch, A., Duschl, W.J.: Clues to the structure of the boundary layer in cataclysmic variables from observations of the flickering 275, 219
- Bruch, A., see Sterken, C., et al. 280, 344 (102, 79)
- Bruls, J.H.M.J.: The formation of helioseismology lines. IV. The Ni I 676.8 nm intercombination line 269, 509
- Bruls, J.H.M.J., Solanki, S.K.: The chromospheric temperature rise in solar magnetic flux tubes 273, 293
- Bruma, C., see Cuperman, S., et al. 270, 480
- Bruma, C., Cuperman, S.: Equilibrium and stability of coronal force-free magnetic field configurations: the case of one ignorable variable 278, 589
- Brumberg, V.A., Bretagnon, P., Francou, G.: Analytical relativistic transformations between reference systems 275, 651
- Brunini, A.: Dynamical friction induces perturbations on Oort cloud comets 273, 684
- Brunini, A.: The importance of distant stellar encounters in the dynamical evolution of planetary systems 276, 261
- Bruns, M., see Hubbard, W.B., et al. 269, 541
- Brunswig, W., see Krichbaum, T.P., et al. 275, 375
- Brunswig, W., see Steppe, H., et al. 280, 350 (102, 611)
- Bruzzi, A., see Cacciari, C. 276, 87
- Bryce, M., see Meaburn, J., et al. 276, L21
- Buccheri, R., see Strong, A.W., et al. 272, 732 (97, 133)
- Buccheri, R., see Bennett, K., et al. 272, 742 (97, 317)
- Buccheri, R., Fry, W.F., Maccarone, M.C.: Search for short bursts of gamma-ray emission in spark chamber data: application to COS-B 277, 353
- Bucciarelli, B., see Bernacca, P.L., et al. 278, L47
- Buchert, T.: Lagrangian perturbation theory: a key-model for large-scale structure 267, L51
- Buchert, T., see Blanchard, A., et al. 267, 1
- Buchert, T., see Weiß, A.G. 274, 1
- Buchler, J.R., see Glasner, A. 277, 69
- Buchler, J.R., Goupil, M.-J., Kovács, G.: Stellar pulsations with stochastic driving 280, 157
- Buczowska, A., see Olive, J.-F., et al. 272, 743 (97, 325)
- Budding, E., see Vilhu, O., et al. 278, 467
- Bünte, M., Steiner, O., Pizzo, V.J.: On the interchange instability of solar magnetic flux tubes. I. The influence of magnetic tension and internal gas pressure 268, 299
- Bünte, M., Solanki, S.K., Steiner, O.: Centre-to-limb variation of the Stokes V asymmetry in solar magnetic flux tubes 268, 736
- Bünte, M., Saar, S.H.: The interchange instability of stellar magnetic flux tubes 271, 167
- Bünte, M., Hasan, S., Kalkofen, W.: On the interchange instability of solar magnetic flux tubes. II. The influence of energy transport effects 273, 287
- Bünte, M., Darconza, G., Solanki, S.K.: Surface waves as the origin of the Evershed phenomenon 274, 478
- Bünte, M.: On the interchange instability of solar magnetic flux tubes. III. The influence of the magnetic field geometry 276, 236
- Buil, C., see Hubbard, W.B., et al. 269, 541
- Buil, C., see Lecavelier des Etangs, A., et al. 274, 877
- Bukvić, S., see Purić, J., et al. 280, 349 (102, 607)
- Bumba, V., Klváňa, M., Kálmán, B., Györi, L.: Evolution, activity, magnetic fields, line-of-sight and proper motions in the solar active region NOAA 6659 (June 3–16, 1991) 276, 193
- Burchi, R., De Santis, R., Di Paolantonio, A., Piersimoni, A.M.: Photoelectric photometry of field variables. I 272, 753 (97, 827)
- Burchi, R., see Piersimoni, A.M., et al. 279, 681 (101, 195)
- Burenkov, A.N., see Petrosian, A.R. 279, 21
- Burg, R., see Hasinger, G., et al. 275, 1
- Burger, M., see Sterken, C., et al. 280, 344 (102, 79)
- Burke, B.F., see Alberdi, A., et al. 271, 93
- Burkert, A., see Shankar, A., et al. 274, 955
- Burkert, A.: Do elliptical galaxies have $r^{1/4}$ brightness profiles? 278, 23
- Burki, G., see Fernley, J.A., et al. 272, 753 (97, 815)
- Burlaga, L.F., see Neubauer, F.M., et al. 268, L5
- Bursov, N.N., see Parijskij, Y.N., et al. 273, 356 (98, 391)
- Bursov, N.N., see Parijskij, Y.N., et al. 273, 356 (98, 391)
- Bursov, N.N., Chepurinov, A.V., Lipovka, N.M., Soboleva, N.S., Temirova, A.V.: The spectral characteristics of the RATAN-600 RC-catalog sources 279, 675 (101, 447)
- Burton, W.B., Liszt, H.S.: Kinematics of neutral gas in the bulge of the Milky Way 274, 765
- Busarello, G., see Tenjes, P., et al. 275, 61
- Buser, R., see Morossi, C., et al. 277, 173
- Busetta, M., see Schönfelder, V., et al. 272, 725 (97, 27)
- Busetta, M., see Collmar, W., et al. 272, 728 (97, 71)
- Busetta, M., see Connors, A., et al. 272, 728 (97, 75)
- Busetta, M., see Strong, A.W., et al. 272, 732 (97, 133)
- Busetta, M., see Diehl, R., et al. 272, 735 (97, 181)
- Busetta, M., see Lichti, G.G., et al. 272, 736 (97, 215)
- Busetta, M., see Bennett, K., et al. 272, 742 (97, 317)
- Buson, L., see Arnaboldi, M., et al. 268, 103
- Buson, L.M., see Cristiani, S., et al. 268, 86
- Buson, L.M., Sadler, E.M., Zeilinger, W.W., Bertin, G., Bertola, F., Danziger, I.J., Dejonghe, H., Saglia, R.P., de Zeeuw, P.T.: The distribution of ionized gas in early-type galaxies 280, 409
- Busso, M., see Matteucci, F., et al. 272, 421
- Bussoletti, E., see Fulle, M., et al. 276, 582
- Butcher, H.R., see Frandsen, S., et al. 279, 310
- Butin, G., see Krichbaum, T.P., et al. 275, 375
- Butler, C.J., see Quin, D.A., et al. 272, 477
- Butler, C.J.: An extended correlation between the Balmer and soft X-ray emission from solar and stellar flares 272, 507
- Buzzoni, A.: Statistical properties of stellar populations and surface-brightness fluctuations in galaxies 275, 433
- Bykov, A.M., Fleishman, G.D.: Superbubbles in galaxies: a new class of nonthermal sources 280, L27
- Byrne, P.B., see Quin, D.A., et al. 272, 477
- Byrne, P.B.: Activity in late-type stars. VIII. The nature of the dM(e) or "zero" H α stars 272, 495
- Byrne, P.B.: Activity in late-type stars. IX. The weakest chromosphere M dwarf yet discovered: Gl 105B 278, 520
- Cabrit, S., see Bouvier, J., et al. 272, 176
- Cabrit, S., see Raga, A. 278, 267
- Cabrit, S., see Bouvier, J., et al. 279, 675 (101, 485)

- Cacciari, C., Bruzzi, A.: On the mass of type-c RR Lyrae variables in globular clusters **276**, 87
- Caccin, B., Gomez, M.T., Severino, G.: The formation of the alkali resonance lines in cool atmospheres. I. NaI and KI in a sunspot umbra **276**, 219
- Calamai, G., see Salvati, M., et al. **274**, 174
- Callas, J.L., see Mahoney, W.A., et al. **272**, 746 (**97**, 385)
- Caloi, V., Cassatella, A., Castellani, V., Walker, A.: A far UV investigation of luminous hot stars in the SMC cluster NGC 330 **271**, 109
- Caloi, V., Mazzitelli, I.: Horizontal branch evolution **271**, 139
- Calvet, N., see Raga, A.C., et al. **276**, 539
- Camenzind, M., see Appl, S. **270**, 71
- Camenzind, M., see Appl, S. **274**, 699
- Camenzind, M., see Schramm, K.-J., et al. **278**, 391
- Cameron, A.C., Campbell, C.G.: Rotational evolution of magnetic T Tauri stars with accretion discs **274**, 309
- Cameron, L.M., see Binggeli, B. **273**, 355 (**98**, 297)
- Cameron, M., see Rydbeck, G., et al. **270**, L13
- Cameron, R.A., see Johnson, W.N., et al. **272**, 725 (**97**, 21)
- Campana, S., Pardi, M.C.: Do molecular clouds contain accreting black holes? **277**, 477
- Campana, S., see Colpi, M., et al. **278**, 161
- Campbell, C.G., see Cameron, A.C. **274**, 309
- Campeanu, A., see Schlickeiser, R., et al. **276**, 614
- Campos-Aguilar, A., Prieto, M., García, C.: The *V-R* diagram: a diagnostic tool for the dynamical classification of spiral galaxies **276**, 16
- Canal, R., see Bravo, E., et al. **269**, 187
- Canal, R., see Bravo, E., et al. **270**, 288
- Canal, R., see Abia, C., et al. **275**, 96
- Cananzi, K., Augarde, R., Lequeux, J.: An atlas of Balmer lines (H δ and H γ) **279**, 678 (**101**, 599)
- Cantó, J., see Raga, A.C., et al. **276**, 539
- Cao, H., see Catala, C., et al. **275**, 245
- Capaccioli, M., see Arnaboldi, M., et al. **267**, 21
- Capaccioli, M., see Arnaboldi, M., et al. **268**, 103
- Capaccioli, M., Cappellaro, E., Held, E.V., Vietri, M.: Deep kinematics and dynamics of edge-on S0 galaxies. I. NGC 3115 **274**, 69
- Capaccioli, M., see Lorenz, H., et al. **277**, L15
- Capaccioli, M., see Lorenz, H., et al. **277**, 321
- Capaccioli, M., see Zaggia, S.R., et al. **278**, 415
- Capetti, A., see Parma, P., et al. **267**, 31
- Capetti, A., Morganti, R., Parma, P., Fanti, R.: Polarization in low luminosity radio galaxies **275**, 354 (**99**, 407)
- Capitaine, N., Gontier, A.-M.: Accurate procedure for deriving UT1 at a submilliarcsecond accuracy from Greenwich Sidereal Time or from the stellar angle **275**, 645
- Cappellaro, E., see Arnaboldi, M., et al. **267**, 21
- Cappellaro, E., Turatto, M., Benetti, S., Tsvetkov, D.Y., Bartunov, O.S., Makarova, I.N.: The rate of supernovae. I. The data base, the recipe and the uncertainties **268**, 472
- Cappellaro, E., see Mazzali, P.A., et al. **269**, 423
- Cappellaro, E., Turatto, M., Benetti, S., Tsvetkov, D.Y., Bartunov, O.S., Makarova, I.N.: The rate of supernovae. II. The selection effects and the frequencies per unit blue luminosity **273**, 383
- Cappellaro, E., see Capaccioli, M., et al. **274**, 69
- Cappellaro, E., see Patat, F., et al. **274**, 1011 (**98**, 443)
- Cappi, A., see Galli, M., et al. **279**, 336 (**101**, 259)
- Caputo, F., De Rinaldis, A., Manteiga, M., Pulone, L., Quarta, M.L.: An atlas of theoretical constraints for horizontal branch stars **276**, 41
- Caranicolas, N.D.: The 1:1 resonance in galactic-type Hamiltonian systems **267**, 388
- Caraveo, P., see Belloni, T., et al. **271**, 487
- Caraveo, P.A., see Bignami, G.F., et al. **272**, 738 (**97**, 229)
- Carballo, R., Wesseli, P.R., Whittet, D.C.B.: Identification of IRAS point sources in Scorpio-Centaurus-Lupus **268**, 832
- Carbonell, M., Oliver, R., Ballester, J.L.: On the asymmetry of solar activity **274**, 497
- Cardini, D., see Bernacca, P.L., et al. **278**, L47
- Carlström, U., see Bergman, P., et al. **268**, 685
- Carlström, U., see Nyman, L.-Å., et al. **269**, 377
- Carlstrom, J.E., see Lerner, M.S., et al. **280**, 117
- Caroli, E., Baldazzi, G., Bassani, L., Di Cocco, G., Dusi, W., Malaguti, G., Rossi, M., Spizzichino, A., Stephen, J.B., Trifoglio, M.: Possible applications of CdTe detectors to high-energy astronomy **272**, 746 (**97**, 393)
- Carramiñana, A., see Bennett, K., et al. **272**, 742 (**97**, 317)
- Carrara, E.A., Abraham, Z., Unwin, S.C., Zensus, J.A.: The milliarcsecond structure of the quasar 3C 279 **279**, 83
- Carraro, G., Bertelli, G., Bressan, A., Chiosi, C.: Two intermediate age open clusters: NGC 752 and NGC 3680 **279**, 337 (**101**, 381)
- Carrasco, G., Loyola, P.: *UBVR* photometry of FKSZ stars. IV. **277**, 361 (**100**, 489)
- Carreira, E., see Hubbard, W.B., et al. **269**, 541
- Carter, D., see Shaw, M., et al. **268**, 511
- Carter, D., see Balcells, M. **279**, 376
- Carter, M.K., see Harrison, R.A., et al. **274**, L9
- Casali, M.M., Eiroa, C., Duncan, W.D.: A second phase of star formation in the Serpens core **275**, 195
- Casavecchia, M., see Battistini, P.L., et al. **272**, 77
- Caselli, P., see Palla, F., et al. **280**, 599
- Casini, R., Landi Degl'Innocenti, E.: The polarized spectrum of hydrogen in the presence of electric and magnetic fields **276**, 289
- Casoli, F., see Gerin, M., et al. **268**, 212
- Casoli, F., see Braine, J., et al. **272**, 754 (**97**, 887)
- Casoli, F., see Encrenaz, P.J., et al. **273**, L19
- Casoli, F., Gerin, M.: CO in the "Black Eye" galaxy NGC 4826 **279**, L41
- Cassatella, A., see Caloi, V., et al. **271**, 109
- Cassinelli, J.P., see Hillier, D.J., et al. **276**, 117
- Cassinelli, J.P., see Biermann, P.L. **277**, 691
- Cassola, C., see Vladilo, G., et al. **273**, 239
- Castañeda, H.O., see Muñoz-Tuñón, C., et al. **278**, 364
- Castellani, V., see Caloi, V., et al. **271**, 109
- Castellani, V., Degl'Innocenti, S., Fiorentini, G.: Solar neutrinos and nuclear reactions in the solar interior **271**, 601
- Castellani, V., Degl'Innocenti, S., Luridiana, V.: Globular-cluster red giants as a probe of horizontal branch luminosities **272**, 442
- Castets, A., see Dutrey, A., et al. **270**, 468
- Castets, A., see Pagani, L., et al. **274**, L13
- Castets, A., see Pagani, L., et al. **275**, 573
- Castilho, B.V., see Gregorio-Hetem, J., et al. **268**, L25
- Castles, J., see McKeith, C.D., et al. **272**, 98
- Castro-Tirado, A.J., see Brandt, S., et al. **272**, 739 (**97**, 257)
- Castro-Tirado, A.J., Brandt, S., Lund, N., Dremin, V., Lapshov, I., Sunyaev, R.: WATCH observations of the X-ray pulsar GX 301-2 **272**, 743 (**97**, 329)
- Castro-Tirado, A.J., Pavlenko, E.P., Shlyapnikov, A.A., Brandt, S., Lund, N., Ortiz, J.L.: Discovery of the optical counterpart of the soft X-ray transient GRO J0422+32 **276**, L37
- Catala, C., Foing, B.H., Baudrand, J., Cao, H., Char, S., Chatzichristou, H., Cuby, J.G., Czarny, J., Dreux, M., Felenbok, P., Floquet, M., Guérin, J., Huang, L., Hubert-Delplace, A.M., Hubert, H., Huvelin, J., Jankov, S., Jiang, S., Li, Q., Neff, J.E., Petrov, P., Sa-

- vanov, I., Shcherbakov, A., Simon, T., Tuominen, I., Zhai, D.: Multi-site continuous spectroscopy. I. Overview of the MUSICOS 1989 campaign organization **275**, 245
- Catala, C., see Donati, J.-F. **277**, 123
- Catala, C., Böhm, T., Donati, J.-F., Semel, M.: Circular polarization and variability in the spectra of Herbig Ae/Be stars. I. The Fe II 5018 Å and He I 5876 Å lines of AB Aurigae **278**, 187
- Catala, C., see Böhm, T. **279**, 678 (**101**, 629)
- Catalano, F.A., Leone, F.: Light variability of some CP Si stars **272**, 749 (**97**, 501)
- Catalano, F.A., Renson, P., Leone, F.: Third supplement to the catalogue of observed periods of Ap stars **273**, 354 (**98**, 269)
- Catalano, F.A., Leone, F.: The light variations of some southern CP2 stars **276**, 328 (**100**, 319)
- Catalano, F.A., see Leone, F., et al. **279**, 167
- Catalano, S., see Umana, G., et al. **267**, 126
- Catarzi, M., Moscadelli, L., Panella, D.: Observation of methanol maser sources with the Arcetri 12 GHz receiver **273**, 352 (**98**, 127)
- Catarzi, M., see Felli, M., et al. **279**, 680 (**101**, 127)
- Catelan, M.: Synthetic horizontal-branch models for Galactic globular clusters **274**, 1013 (**98**, 547)
- Caulet, A., see Boller, T., et al. **279**, 53
- Cawley, M.F., see Akerlof, C.W., et al. **274**, L17
- Cayrel de Strobel, G., see Friel, E., et al. **274**, 825
- Cellino, A., see Bendjoya, P., et al. **272**, 651
- Centurión, M., see Vladilo, G., et al. **273**, 239
- Centurión, M., see Vladilo, G., et al. **280**, L11
- Cepič, Z., Spurný, P., Borovička, J., Kečliková, J.: Atmospheric fragmentation of meteoroids **279**, 615
- Cerf, N., see Boffin, H.M.J., et al. **271**, 125
- Cernicharo, J., see García-Burillo, S., et al. **274**, 123
- Cernicharo, J., see Fuente, A., et al. **275**, 558
- Cernicharo, J., see Fuente, A., et al. **276**, 473
- Cernicharo, J., see González-Alfonso, E. **279**, 506
- Cernicharo, J., see Guélin, M., et al. **280**, L19
- Cernis, K., see Hubbard, W.B., et al. **269**, 541
- Cersosimo, J.C., see Quiniento, Z.M. **272**, 748 (**97**, 435)
- Cesaroni, R., see Olmi, L., et al. **276**, 489
- Cesaroni, R., see Palagi, F., et al. **279**, 681 (**101**, 153)
- Cesaroni, R., see Palla, F., et al. **280**, 599
- Chabrier, G., see Segretain, L. **271**, L13
- Chakrabarti, S.K., Wiita, P.J.: Effects of spiral shocks on disk emission lines **271**, 216
- Chan, K.K., see Zhang, J.L., et al. **273**, 95
- Chan, K.L., see Singh, H.P. **279**, 107
- Chandra, S., Sahu, A.: Einstein A-coefficients for rotational transitions in the ν_3 vibrationally excited state of SiC₂ **272**, 700
- Chang, K., see Schramm, T., et al. **268**, 350
- Chantell, M., see Akerlof, C.W., et al. **274**, L17
- Chantry, P., Grappin, R., Léorat, J.: Condensations in a self-gravitating flow: from gravito-acoustic waves to bound structures **272**, 555
- Chapuis, C., see Durouchoux, P., et al. **272**, 735 (**97**, 185)
- Chapuis, C., see Smith, D.M., et al. **272**, 736 (**97**, 199)
- Char, S., see Ferlet, R., et al. **267**, 137
- Char, S., see Catala, C., et al. **275**, 245
- Char, S., Foing, B.H.: Chromospheric rotational modulation in solar-like stars. I. A method for multi-component modelling of Ca II H and K spectroscopic variability **276**, 69
- Char, S., Foing, B.H., Beckman, J., García López, R.J., Rebolo, R.: Chromospheric rotational modulation in solar-like stars. II. Multi-component modelling and rotational period of α Centauri B from Ca II H spectroscopic variability **276**, 78
- Charbonnel, C., Meynet, G., Maeder, A., Schaller, G., Schaerer, D.: Grids of stellar models. III. From 0.8 to 120 M_{\odot} at $Z=0.004$ **279**, 338 (**101**, 415)
- Charbonnel, C., Lebreton, Y.: Standard solar model: interplay between the equation of state, the opacity and the determination of the initial helium content **280**, 666
- Charbonnel, C., see Schaerer, D., et al. **280**, 346 (**102**, 339)
- Chareton, M., Considère, S., Bienaymé, O.: Proper motion probe of the Galaxy in the anticentre direction **280**, 350 (**102**, 649)
- Chassefière, E., see Lallemand, R., et al. **271**, 734
- Chatzichristou, H., see Catala, C., et al. **275**, 245
- Chau, W.Y., see Zhang, J.L., et al. **273**, 95
- Chauvineau, B., see Farinella, P. **279**, 251
- Chavarria-K., C., see Moreno-Corral, M.A., et al. **273**, 619
- Chavarria-K., C., see Neri, L.J., et al. **280**, 345 (**102**, 201)
- Chen, H., see Zhang, X., et al. **275**, 356 (**99**, 545)
- Chen, J.-S., see Fan, X.H. **277**, L5
- Cheng, F.H., see Shrader, C.R., et al. **272**, 742 (**97**, 309)
- Cheng, K.S., see Zhang, J.L., et al. **273**, 95
- Cheng, K.S., Yu, K.N., Ding, K.Y.: X-ray and gamma-ray emission from active galactic nuclei **275**, 53
- Cheng, L.X., Li, T.P., Ma, Y.Q., Sun, X.J., Wu, M.: Precise measurements of the right ascension of the Geminga pulsar using COS-B data **277**, L13
- Chenghong Gu, see Qingyao Liu, et al. **279**, 336 (**101**, 253)
- Chepurinov, A.V., see Parijskij, Y.N., et al. **273**, 356 (**98**, 391)
- Chepurinov, A.V., see Bursov, N.N., et al. **279**, 675 (**101**, 447)
- Cherepashchuk, A.M., see Aslanov, A.A., et al. **270**, 200
- Chemin, A.D.: The nature of the angular momentum of galaxies: the hydrodynamical theory **267**, 315
- Chevalier, C., Ilovaisky, S.A.: Optical studies of transient low-mass X-ray binaries. IV. A 10-hour distortion wave in the quiescent light curve of GS 2000+25 **269**, 301
- Chevalier, C., see Ilovaisky, S.A., et al. **270**, 139
- Chevreton, M., see Vauclair, G., et al. **267**, L35
- Chiar, J.E., see Prusti, T., et al. **279**, 163
- Chièze, J.P., see Renard, M. **267**, 549
- Chincarini, G., see Baffa, C., et al. **280**, 20
- Chincarini, G., see Banfi, M., et al. **280**, 373
- Chini, R., Krügel, E., Haslam, C.G.T., Kreysa, E., Lemke, R., Reipurth, B., Sievers, A., Ward-Thompson, D.: Discovery of a cold and gravitationally unstable cloud fragment **272**, L5
- Chini, R., see Reipurth, B., et al. **273**, 221
- Chini, R., Krügel, E.: Dust in spiral galaxies. I **279**, 385
- Chiosi, C., see Alongi, M., et al. **272**, 754 (**97**, 851)
- Chiosi, C., see Bressan, A., et al. **277**, 364 (**100**, 647)
- Chiosi, C., see Carraro, G., et al. **279**, 337 (**101**, 381)
- Chipman, E., see Gehrels, N., et al. **272**, 724 (**97**, 5)
- Chitnis, V.R., Rao, A.R., Agrawal, P.C., Manchanda, R.K.: Hard X-ray spectrum of 4U 1907+09 **268**, 609
- Chitre, S.M., see Narasimha, D. **280**, 57
- Chiuderi-Drago, F., see Neidhöfer, J., et al. **278**, L51
- Chmielewski, Y., see Friel, E., et al. **274**, 825
- Chochol, D., Hric, L., Urban, Z., Komžík, R., Grygar, J., Papoušek, J.: Spectroscopic and photometric behaviour of Nova Cygni 1992 in the first nine months following outburst **277**, 103
- Chollet, F., see Pešek, I., et al. **274**, 621
- Chollet, F., Noël, F.: The new astrolabe of Santiago (Chile): description of the instrument and first results (*Text in French*) **276**, 655
- Chollet, F., see Sanchez, M., et al. **279**, 677 (**101**, 573)
- Chollet, F.: A global analysis method for astrolabe observations (*Text in French*) **280**, 675

- Choudhuri, A.R., see D'Silva, S. 272, 621
- Christensen-Dalsgaard, J., Thompson, M.J.: A preprocessing strategy for helioseismic inversions 272, L1
- Christian, C., see Le Brun, V., et al. 279, 33
- Christopoulou, P.-E., Goudis, C.D.: The Seyfert galaxy NGC 4151: peak activity on the decline? 272, 407
- Christou, J., see Leinert, C., et al. 278, 129
- Christou, J.C., see Haas, M., et al. 269, 282
- Chuikin, E., see Olive, J.-F., et al. 272, 743 (97, 325)
- Chulkov, I., see Cordier, B., et al. 275, L1
- Chulkov, I., see Laurent, P., et al. 278, 444
- Chupp, E.L., Trotter, G., Marschhäuser, H., Pick, M., Soru-Escut, I., Rieger, E., Dunphy, P.P.: A study of the evolution of electron and ion acceleration during the 09:09 UT solar flare on 1989 September 9 275, 602
- Churazov, E., see Cordier, B., et al. 272, 277
- Churazov, E., see Mandrou, P., et al. 272, 724 (97, 1)
- Churazov, E., see Sunyaev, R., et al. 272, 729 (97, 85)
- Churazov, E., see Bassani, L., et al. 272, 729 (97, 89)
- Churazov, E., see Nottingham, M.R., et al. 272, 734 (97, 165)
- Churazov, E., Gilfanov, M., Sunyaev, R., Dyachkov, A., Khavenson, N., Kovtunen, V., Kremnev, R., Sukhanov, K., Niel, M., Bouchet, L., Mandrou, P., Roques, J.P., Cordier, B., Goldwurm, A., Lebrun, F., Leray, J.P.: Spectral states of 1E 1740.7-2942 272, 734 (97, 173)
- Churazov, E., see Cordier, B., et al. 272, 734 (97, 177)
- Churazov, E., see Lei, F., et al. 272, 735 (97, 189)
- Churazov, E., see Laurent, P., et al. 272, 737 (97, 225)
- Churazov, E., see Barret, D., et al. 272, 738 (97, 241)
- Churazov, E., see Grebenev, S., et al. 272, 740 (97, 281)
- Churazov, E., see Goldwurm, A., et al. 272, 741 (97, 293)
- Churazov, E., see Gilfanov, M., et al. 272, 741 (97, 303)
- Churazov, E., see Denis, M., et al. 272, 743 (97, 333)
- Churazov, E., see Cordier, B., et al. 275, L1
- Churazov, E., see Laurent, P., et al. 278, 444
- Churchwell, E., see Felli, M., et al. 273, 352 (98, 137)
- Churchwell, E., see Felli, M., et al. 279, 680 (101, 127)
- Chuvilgin, L.G., see Ptuskin, V.S., et al. 268, 726
- Chuvilgin, L.G., Ptuskin, V.S.: Anomalous diffusion of cosmic rays across the magnetic field 279, 278
- Chyży, K.T., Zięba, S.: Linear size evolution of extended quasars 267, L27
- Ciardullo, R., see Méndez, R.H., et al. 275, 534
- Ciotti, L., see Battistini, P.L., et al. 272, 77
- Ciotti, L., see Federici, L., et al. 274, 87
- Ciotti, L., see Tyson, N.D., et al. 275, 630
- Ciotti, L., see Bendinelli, O., et al. 279, 668
- Claeskens, J.-F., see Remy, M., et al. 278, L19
- Clairemidi, J., see Rousselot, P., et al. 277, 653
- Clampin, M., see Robberto, M., et al. 280, 241
- Claret, A., see Sunyaev, R., et al. 272, 729 (97, 85)
- Claret, A., see Laurent, P., et al. 272, 737 (97, 225)
- Claret, A., see Barret, D., et al. 272, 738 (97, 241)
- Claret, A., see Grebenev, S., et al. 272, 740 (97, 281)
- Claret, A., see Denis, M., et al. 272, 743 (97, 333)
- Claret, A., Giménez, A.: The apsidal motion test of the internal stellar structure: comparison between theory and observations 277, 487
- Clariá, J.J., Lapasset, E., Bosio, M.A.: Further observations of stars in the open cluster NGC 5460 274, 1014 (99, 1)
- Clark, T.A., see Harrison, R.A., et al. 274, L9
- Clarke, D., Naghizadeh-Khouei, J., Simmons, J.F.L., Stewart, B.G.: A statistical assessment of zero-polarization catalogues 269, 617
- Clarke, D., see Naghizadeh-Khouei, J. 274, 968
- Clausen, J.V., see Andersen, J., et al. 277, 439
- Clausen, J.V., Garcia, J.M., Giménez, A., Helt, B.E., Vaz, L.P.R.: Four-colour photometry of eclipsing binaries. XXXV. Light curves of GG Lupi: Young metal-deficient B stars 279, 677 (101, 563)
- Clavel, J., see Parthasarathy, M., et al. 267, L19
- Clavel, J., see Wanders, I., et al. 269, 39
- Clavier, J.-P., see Ferlet, R., et al. 267, 137
- Clayton, D.D., see Johnson, W.N., et al. 272, 725 (97, 21)
- Clayton, D.D., see Hartmann, D., et al. 272, 737 (97, 219)
- Clegg, R.E.S., see Esteban, C., et al. 272, 299
- Clette, F.: Properties of the atmospheric noise in full-disk photometric observations of solar oscillations: implications for asteroseismology from the ground 267, 577
- Cline, T., see Hurley, K., et al. 272, 726 (97, 39)
- Clube, S.V.M., see de Vegt, C., et al. 272, 755 (97, 985)
- Coates, A.J., see Johnstone, A.D., et al. 273, L1
- Cobbly, T., see Bennett, K., et al. 272, 742 (97, 317)
- Cocchi, M., see Ubertini, P., et al. 272, 730 (97, 105)
- Cocchi, M., see Bazzano, A., et al. 272, 734 (97, 169)
- Coe, M.J., see Roche, P., et al. 270, 122
- Coe, M.J., Everall, C., Fabregat, J., Gorrod, M.J., Norton, A.J., Reglero, V., Roche, P., Unger, S.J.: Infrared and optical studies of Be star/X-ray binaries 272, 738 (97, 245)
- Coe, M.J., see Roche, P., et al. 272, 740 (97, 277)
- Colangeli, L., see Fulle, M., et al. 276, 582
- Colas, F., see Hubbard, W.B., et al. 269, 541
- Colas, F., see Lecavelier des Etangs, A., et al. 274, 877
- Colin, J., see Rapaport, M., et al. 271, 645
- Collier Cameron, A., see Vilhu, O., et al. 278, 467
- Collin-Souffrin, S., see Rokaki, E., et al. 272, 8
- Collmar, W., see Schönfelder, V., et al. 272, 725 (97, 27)
- Collmar, W., Bennett, K., Bloemen, H., de Boer, H., Busetta, M., Connors, A., Diehl, R., Greiner, J., Hanlon, L., den Herder, J.W., Hermesen, W., Kuiper, L., Lichti, G.G., Lockwood, J., Macri, J., McConnell, M., Morris, D., Much, R., Ryan, J., Schönfelder, V., Stacy, J.G., Steinle, H., Strong, A.W., Swanenburg, B.N., Taylor, B.G., Varendorff, M., De Vries, C., Webber, W., Williams, O.R., Winkler, C.: COMPTEL observations of gamma-ray bursts: time profiles and spectra 272, 728 (97, 71)
- Collmar, W., see Connors, A., et al. 272, 728 (97, 75)
- Collmar, W., see Hermesen, W., et al. 272, 730 (97, 97)
- Collmar, W., see Strong, A.W., et al. 272, 732 (97, 133)
- Collmar, W., see Diehl, R., et al. 272, 735 (97, 181)
- Collmar, W., see Lichti, G.G., et al. 272, 736 (97, 215)
- Collmar, W., see Bennett, K., et al. 272, 742 (97, 317)
- Colom, P., see Crovisier, J., et al. 269, 527
- Colomer, F., see Alberdi, A., et al. 271, 93
- Colomer, F., see Krichbaum, T.P., et al. 274, L37
- Colomer, F., see Krichbaum, T.P., et al. 275, 375
- Colpi, M., see Treves, A., et al. 269, 319
- Colpi, M., Campana, S., Treves, A.: The observability of old isolated neutron stars with ROSAT. II. Molecular clouds and deep fields 278, 161
- Combes, F., see Braine, J. 269, 7
- Combes, F., Elmegreen, B.G.: Bars in early- and late-type galaxies 271, 391
- Combes, F., see Braine, J., et al. 272, 754 (97, 887)
- Combes, F., see Encrenaz, P.J., et al. 273, L19
- Combes, F., see Shaw, M.A., et al. 273, 31
- Combes, F., see García-Burillo, S., et al. 274, 148
- Combes, F., see Braine, J., et al. 280, 451
- Combi, J.A., see Luna, H.G., et al. 269, 77

- Comerón, F., Torra, J., Jordi, C., Gómez, A.E.: Anomalous proper motions in the Cygnus Superbubble region **279, 679 (101, 37)**
- Comoretto, G., see Bertotti, B., et al. **269, 608**
- Comoretto, G., see Tarchi, D. **275, 679**
- Comoretto, G., see Palagi, F., et al. **279, 681 (101, 153)**
- Comoretto, G., see Palla, F., et al. **280, 599**
- Comte, R., see Olive, J.F., et al. **272, 742 (97, 321)**
- Comte, R., see Olive, J.F., et al. **272, 743 (97, 335)**
- Conlon, E.S., Theissen, A., Moehler, S.: The nature of two blue stars in the galactic halo **269, L1**
- Conlon, E.S., see Dufton, P.L., et al. **269, 201**
- Conlon, E.S., Dufton, P.L., Keenan, F.P., McCausland, R.J.H., Little, J.E.: Infrared observations of possible hot post-asymptotic giant branch stars **272, 243**
- Conlon, E.S., see Dufton, P.L., et al. **278, 68**
- Connors, A., see Schönfelder, V., et al. **272, 725 (97, 27)**
- Connors, A., see Collmar, W., et al. **272, 728 (97, 71)**
- Connors, A., Aarts, H.J.M., Bennett, K., Bloemen, H., de Boer, H., Busetta, M., Collmar, W., Diehl, R., van Dijk, R., Hanlon, L., den Herder, J.W., Hermesen, W., Kippen, R.M., Kuiper, L., Klumper, A., Lichti, G.G., Lockwood, J., Macri, J., McConnell, M., Morris, D., Much, R., Ryan, J., Schönfelder, V., Simpson, G., Stacy, J.G., Steinle, H., Strong, A.W., Swanenburg, B., Taylor, B., Varendorff, M., de Vries, C., Webber, W., Williams, O.R., Winkler, C.: COMPTEL observations of gamma-ray bursts: imaging and localization **272, 728 (97, 75)**
- Connors, A., see Hermesen, W., et al. **272, 730 (97, 97)**
- Connors, A., see Strong, A.W., et al. **272, 732 (97, 133)**
- Connors, A., see Diehl, R., et al. **272, 735 (97, 181)**
- Connors, A., see Lichti, G.G., et al. **272, 736 (97, 215)**
- Connors, A., see Bennett, K., et al. **272, 742 (97, 317)**
- Considère, S., see Chareton, M., et al. **280, 350 (102, 649)**
- Conti, P.S., see St-Louis, N., et al. **267, 447**
- Conti, P.S., see Hanson, M.M., et al. **273, L44**
- Contreras Martínez, M.E., see Schuster, W.J., et al. **272, 755 (97, 951)**
- Conway, R.G., Garrington, S.T., Perley, R.A., Biretta, J.A.: Synchrotron radiation from the jet of 3C 273. II. The radio structure and polarization **267, 347**
- Corbet, R.H.D., Woo, J.W., Nagase, F.: The orbit and pulse period of X 1538-522 from Ginga observations **276, 52**
- Corbin, J., see Vermeulen, R.C., et al. **270, 189**
- Corcoran, D., Ray, T.P., Mundt, R.: Optical evidence for a poorly-collimated wind from Cepheus A **279, 206**
- Cordier, B., Paul, J., Goldwurm, A., Laurent, P., Bouchet, L., Jourdain, E., Roques, J.P., Mandrou, P., Gilfanov, M., Churazov, E., Sunyaev, R., Khavenson, N., Dyachkov, A., Novikov, B., Kremnev, R., Kovtunenkov, V.: SIGMA soft γ -ray observations of 1E 1740.7-2942 in the spring of 1992: discovery of a sub-luminous state of emission and precise γ -ray position measurement **272, 277**
- Cordier, B., see Bassani, L., et al. **272, 729 (97, 89)**
- Cordier, B., see Churazov, E., et al. **272, 734 (97, 173)**
- Cordier, B., Goldwurm, A., Leray, J.P., Paul, J., Bouchet, L., Mandrou, P., Niel, M., Roques, J.P., Churazov, E., Gilfanov, M., Sunyaev, R., Dyachkov, A., Khavenson, N., Kremnev, R., Sukhanov, K., Kuleshova, N.: Two-year monitoring of persistent point sources in the Galactic center region at soft γ -ray energies with SIGMA **272, 734 (97, 177)**
- Cordier, B., see Lei, F., et al. **272, 735 (97, 189)**
- Cordier, B., see Mirabel, I.F., et al. **272, 735 (97, 193)**
- Cordier, B., see Laurent, P., et al. **272, 737 (97, 225)**
- Cordier, B., see Grebenev, S., et al. **272, 740 (97, 281)**
- Cordier, B., Paul, J., Ballet, J., Goldwurm, A., Bouchet, L., Roques, J.P., Mandrou, P., Vedrenne, G., Churazov, E., Gilfanov, M., Sunyaev, R., Novikov, B., Chulkov, I., Kuleshova, N., Tserenin, I., Sheikhet, A.: The soft γ -ray source 1E 1740.7-2942 revisited: SIGMA observation of a new transient activity beyond 200 keV **275, L1**
- Cordis, L., see Vogel, S., et al. **273, 353 (98, 193)**
- Cordoni, J.-P., see Illovaisky, S.A., et al. **270, 139**
- Cork, C., see Feffer, P.T., et al. **272, 726 (97, 31)**
- Cork, C., see Smith, D.M., et al. **272, 736 (97, 199)**
- Cornide, M., see Fernández-Figueroa, M.J., et al. **274, 373**
- Cornwell, T.J., Holdaway, M.A., Uson, J.M.: Radio-interferometric imaging of very large objects: implications for array design **271, 697**
- Coron, N., Zhou, J.W., de Bellefon, A., Dambier, G., Giraud-Heraud, Y., Goldbach, C., Gonzalez-Mestres, L., Goret, P., Leblanc, J., de Marcillac, P., Nollez, G.: Towards a bolometric dark matter detection experiment: underground radioactive background measurements in the 3 keV – 5 MeV energy range with a massive bolometer at 55 mK **278, L31**
- Corporon, P., see Lagrange, A.M., et al. **274, 785**
- Corradi, R.L.M., Schwarz, H.E.: Bipolar nebulae and binary stars: the family of crabs He 2-104, BI Crucis, and MyCn 18 **268, 714**
- Corradi, R.L.M., Schwarz, H.E.: The kinematics of the high velocity bipolar nebulae NGC 6537 and Hb 5 **269, 462**
- Corradi, R.L.M., Schwarz, H.E.: The bipolar outflow of He 2-36 **273, 247**
- Corradi, R.L.M., see Stanghellini, L., et al. **276, 463**
- Corradi, R.L.M., Schwarz, H.E.: Kinematics of bipolar planetary nebulae **278, 247**
- Corradi, R.L.M., see Aspin, C., et al. **278, 255**
- Corradi, R.L.M., see Stanghellini, L., et al. **279, 521**
- Corradi, R.L.M., see Stanghellini, L., et al. **279, 674**
- Corugedo, G., see Hubbard, W.B., et al. **269, 541**
- Costa, E., see Olive, J.F., et al. **272, 742 (97, 321)**
- Costa, E., see Olive, J.F., et al. **272, 743 (97, 335)**
- Costa, E., see Massaro, E., et al. **272, 747 (97, 399)**
- Costa, R.D.D., see de Freitas Pacheco, J.A., et al. **271, 429**
- Costa, R.D.D., de Freitas Pacheco, J.A., Maciel, W.J.: He2-90: a southern planetary nebula with low metal abundances **276, 184**
- Costa, R.D.D., see de Freitas Pacheco, J.A., et al. **279, 567**
- Costero, R., see Echevarría, J., et al. **275, 201**
- Coté, J., van Kerkwijk, M.H.: New bright Be stars and the Be star frequency **274, 870**
- Cotin, F., see Feffer, P.T., et al. **272, 726 (97, 31)**
- Cotton, W.D., see Alberdi, A., et al. **277, L1**
- Coupiac, P., see Ferlet, R., et al. **267, 137**
- Coupinot, G., see Lauzeral, C., et al. **274, 214**
- Courtès, G., Petit, H., Hua, C.T., Martin, P., Blecha, A., Huguénin, D., Golay, M.: Structure of the spiral arms of NGC 4258 in H α and at 2000 Å **268, 419**
- Courvoisier, T.J.-L.: Multi-wavelength studies of active galactic nuclei **272, 730 (97, 93)**
- Couteau, P.: New double stars (23rd series) discovered at Nice with the 50 cm refractor (*Text in French*) **272, 749 (97, 511)**
- Couteau, P., Docobo, J.A., Ling, J.: Measures of close binaries observed at the Pic du Midi Observatory (*Text in French*) **276, 328 (100, 305)**
- Covault, C.E., see Grindlay, J.E., et al. **272, 733 (97, 155)**
- Covino, E., see Alcalá, J.M., et al. **272, 225**
- Covino, S., Pasinetti Fracassini, L.E.: Globular clusters in the Local Group of galaxies: a statistical approach **270, 83**
- Cowley, C.R., see Redfors, A. **271, 273**

- Cox, P., see Bachiller, R., et al. 267, 177
- Coyne, G.V., see Scaltriti, F., et al. 280, 347 (102, 343)
- Craig, I.J.D., Henton, S.M., Rickard, G.J.: The saturation of fast dynamic magnetic reconnection 267, L39
- Craig, I.J.D., see Billingham, M.N., et al. 279, 589
- Cramer, N., see Doazan, V., et al. 269, 415
- Cramer, N.: Intrinsic colours of O, B and early A-type stars in the Geneva system 269, 457
- Cramer, N., see Dougherty, S.M., et al. 273, 503
- Crane, P., see Barbieri, C., et al. 273, 1
- Crane, P., see Israel, F.P., et al. 276, 25
- Cremonese, G., see Fulle, M., et al. 272, 634
- Cristaldi, S., see Hubbard, W.B., et al. 269, 541
- Cristaldi, S., see Fulle, M., et al. 272, 634
- Cristiani, S., Giallongo, E., Buson, L.M., Gouffes, C., La Franca, F.: Coordinated UV-optical observations of quasars: the evolution of the Lyman absorption 268, 86
- Crovisier, J., Bockelée-Morvan, D., Colom, P., Despois, D., Paubert, G.: A search for parent molecules at millimetre wavelengths in comets Austin 1990 V and Levy 1990 XX: upper limits for undetected species 269, 527
- Crowe, R.A., see Ilovaisky, S.A., et al. 270, 139
- Cruzalèbes, P., see Ageorges, N., et al. 271, 373
- Cruzalèbes, P., Schumacher, G., Robbe, S.: High resolution image restoration by stellar interferometry: the 5 beam optical simulator 272, 709
- Csepura, G., see Démoulin, P., et al. 271, 292
- Csillaghy, A., Benz, A.O.: The bandwidth of millisecond radio spikes in solar flares 274, 487
- Cuby, J.G., see Catala, C., et al. 275, 245
- Cuesta, L., Phillips, J.P., Mampaso, A.: Spectroscopy and shock modelling of the unusual bipolar outflow NGC 6905 267, 199
- Cuesta, L., Phillips, J.P.: The kinematic structure of the unusual outflow source Sh 2-71 270, 379
- Cuisinier, F., Terzan, A., Acker, A.: Two new planetary nebulae in the galactic bulge 277, 203
- Cunningham, C.T., see Heaton, B.D., et al. 278, 238
- Cunow, B.: Determination of absorption-free magnitudes for faint galaxies 268, 491
- Cunow, B.: Photometric CCD sequences in 13 southern Abell clusters 272, 750 (97, 541)
- Cunow, B., Wargau, W.F.: Photometric CCD sequences for calibration of the ESO(R) survey 280, 346 (102, 331)
- Cunto, W., Mendoza, C., Ochsenbein, F., Zeppen, C.J.: TOPbase at the CDS 275, L5
- Cuntz, M., see Nieuwenhuijzen, H., et al. 280, 195
- Cuperman, S., Li, J., Semel, M.: Alternative method for the removal of the 180° ambiguity in the sign of the observed transverse photospheric magnetic field 268, 749
- Cuperman, S., Bruma, C., Zoler, D., Semel, M.: Reconstruction of coronal magnetic configurations: the case of strongly nonlinear force-free fields 270, 480
- Cuperman, S., Li, J., Semel, M.: Identification and elimination of the residual ambiguity in the sign of observed photospheric magnetic fields 278, 279
- Cuperman, S., see Bruma, C. 278, 589
- Cuperman, S., see Li, J., et al. 279, 214
- Cusumano, G.C., see Olive, J.F., et al. 272, 742 (97, 321)
- Cusumano, G.C., see Olive, J.F., et al. 272, 743 (97, 335)
- Cutispoto, G., see Pallavicini, R., et al. 267, 145
- Cutispoto, G.: Long-term monitoring of active stars. III. *UBV (RI)*_c photometry of 14 southern hemisphere variables 280, 350 (102, 655)
- Cvetković, Z., see Sadžakov, S., et al. 272, 747 (97, 417)
- Czarny, J., see Catala, C., et al. 275, 245
- Czechowski, W., see Stępień, K. 268, 187
- Dachs, J., see Hanuschik, R.W., et al. 274, 356
- Dačić, M., see Sadžakov, S., et al. 272, 747 (97, 417)
- Dahlem, M., see Koribalski, B., et al. 268, 14
- Dahlem, M., Golla, G., Whiteoak, J.B., Wielebinski, R., Hüttemeister, S., Henkel, C.: The distribution of CO in NGC 4945 270, 29
- Dahmen, G., see Wilson, T.L., et al. 268, 249
- Dahmen, G., see Wilson, T.L., et al. 276, L29
- Dambier, G., see Coron, N., et al. 278, L31
- Damineli Neto, A., Viotti, R., Baratta, G.B., de Araujo, F.X.: High velocity outflow from η Carinae 268, 183
- Danks, A.C., see Sembach, K.R., et al. 275, 688 (100, 107)
- D'Antona, F., Ergma, E.: Evolution of binaries with a low mass component immersed in a radiation field. I. Effect of irradiation by a millisecond pulsar companion 269, 219
- Danziger, I.J., see Mazzali, P.A., et al. 269, 423
- Danziger, I.J., see Bouchet, P. 273, 451
- Danziger, I.J., Baade, D., Della Valle, M.: Optical spectroscopy and photometry of the companion of the bright millisecond pulsar J 0437-4715 276, 382
- Danziger, I.J., see Buson, L.M., et al. 280, 409
- Dara, H.C., Koutchmy, S., Alissandrakis, C.E.: Photospheric and chromospheric magnetic field structure of a bipolar sunspot region 277, 648
- Darconza, G., see Bünte, M., et al. 274, 478
- Datta, B., Alpar, M.A.: Implications of the crustal moment of inertia for neutron-star equations of state 275, 210
- David, P., Le Squeren, A.M., Sivagnanam, P., Braz, M.A.: An OH mainline maser survey of IRAS circumstellar envelope sources 273, 354 (98, 245)
- David, P., Le Squeren, A.M., Sivagnanam, P.: An OH satellite line maser survey of cool IRAS sources and circumstellar envelope evolution 277, 453
- Davies, J.I., see Boyce, P.J., et al. 280, 694
- Davies, J.K., see Evans, A., et al. 267, 161
- Davies, M.B., Ruffert, M., Benz, W., Müller, E.: A comparison between SPH and PPM: simulations of stellar collisions 272, 430
- Davies, S.R., see Heaton, B.D., et al. 278, 238
- Davis, M., see Lecacheux, A., et al. 275, 670
- de Araujo, F.X., see Damineli Neto, A., et al. 268, 183
- de Araújo, F.X., see Petrini, D. 271, 679
- de Assis, A.S., de Azevedo, C.A.: A note on runaway electrons in the presence of kinetic Alfvén waves 271, 675
- de Azevedo, C.A., see de Assis, A.S. 271, 675
- de Bellefon, A., see Coron, N., et al. 278, L31
- de Bernardis, P., Dubrovich, V., Encenaz, P.J., Maoli, R., Masi, S., Mastrantonio, G., Melchiorri, B., Melchiorri, F., Signore, M., Tanzilli, P.E.: Search for LiH lines at high redshift 269, 1
- de Bernardis, P., Aquilini, E., Boscaleri, A., De Petris, M., Gervasi, M., Martinis, L., Masi, S., Natale, V., Palumbo, P., Scaramuzzi, F., Valenziano, L.: ARGO: a balloon-borne telescope for measurements of the millimeter diffuse sky emission 271, 683
- de Boer, H., see Schönfelder, V., et al. 272, 725 (97, 27)
- de Boer, H., see Collmar, W., et al. 272, 728 (97, 71)
- de Boer, H., see Connors, A., et al. 272, 728 (97, 75)
- de Boer, H., see Hermesen, W., et al. 272, 730 (97, 97)
- de Boer, H., see Strong, A.W., et al. 272, 732 (97, 133)
- de Boer, H., see Lichti, G.G., et al. 272, 736 (97, 215)
- de Boer, H., see Bennett, K., et al. 272, 742 (97, 317)
- de Boer, K.S., see Vallenari, A., et al. 268, 137
- de Boer, K.S., see Theissen, A., et al. 273, 524

- de Boer, K.S., see Vladilo G., et al. **280**, L11
- de Boer, K.S., Rodríguez Pascual, P., Wamsteker, W., Sonneborn, G., Fransson, C., Bomans, D.J., Kirshner, R.P.: Intergalactic and galactic clouds on the line of sight to SN 1993J in M 81 seen in IUE spectra **280**, L15
- de Bruyn, A.G., see Wieringa, M.H., et al. **268**, 215
- de Bruyn, A.G., see Wanders, I., et al. **269**, 39
- De Castro, E., see Fernández-Figueroa, M.J., et al. **274**, 373
- de Felice, F., see Klapp, J., et al. **273**, 175
- de Freitas Pacheco, J.A., Barbuy, B., Costa, R.D.D., Idiart, T.E.P.: Type I planetary nebulae in the Large Magellanic Cloud: oxygen, sulphur, and argon abundances as tracers of chemical enrichment **271**, 429
- de Freitas Pacheco, J.A., see Costa, R.D.D., et al. **276**, 184
- de Freitas Pacheco, J.A., Costa, R.D.D., Maciel, W.J.: Abundances of non-type I planetary nebulae in the LMC **279**, 567
- de Graauw, T., see Rubio, M., et al. **271**, 1
- de Graauw, T., see Israel, F.P., et al. **276**, 25
- de Graauw, T., see van Driel, W., et al. **279**, 681 (**101**, 207)
- De Greve, J.P.: Evolutionary sequences for close binary systems in the mass range 3 to 8 M_{\odot} **272**, 749 (**97**, 527)
- De Greve, J.P.: Comparison of remnant masses from close binary evolution with estimates derived from new single star models **277**, 475
- de Groot, M.S., see Jenniskens, P., et al. **273**, 583
- de Haan, J. F., see Wauben, W.M.F., et al. **276**, 589
- de Haan, J.F., see Wauben, W.M.F., et al. **276**, 241
- de Haan, J.F., see Wauben, W.M.F., et al. **277**, 666
- de Jager, C., see Achmad, L., et al. **277**, 361 (**100**, 465)
- de Jager, C., see Nieuwenhuijzen, H., et al. **280**, 195
- de Jager, O.C., Meintjes, P.J.: Short optical bursts and acceleration to TeV energies in AE Aquarii **268**, L1
- de Jong, T., see Groenewegen, M.A.T. **267**, 410
- de Jong, T., see Hu, J.Y., et al. **273**, 185
- de Jong, T., see Hu, J.Y., et al. **276**, 330 (**100**, 413)
- de Jong, T., see Groenewegen, M.A.T. **279**, 336 (**101**, 267)
- de Jong, T., see Groenewegen, M.A.T., et al. **277**, 676 (**101**, 513)
- de Jong, T., see van Driel, W., et al. **279**, 681 (**101**, 207)
- de Kool, M., Ritter, H.: On the formation rate and space density of close white dwarf main sequence star binaries **267**, 397
- de Kool, M., see Kolb, U. **279**, L5
- de Koter, A., Schmutz, W., Lamers, H.J.G.L.M.: A fast non-LTE code for expanding atmospheres: a test of the validity of the Sobolev approximation **277**, 561
- de la Fuente, A., see Doazan, V., et al. **269**, 415
- de Lara, E., see Moreno-Corral, M.A., et al. **273**, 619
- de Lara, E., see Neri, L.J., et al. **280**, 345 (**102**, 201)
- De Lucia, F.C., see Jacq, T., et al. **271**, 276
- de Marcillac, P., see Coron, N., et al. **278**, L31
- de Martino, D., see Parthasarathy, M., et al. **267**, L19
- de Niem, D., see Halm, I., et al. **269**, 601
- De Nile, F., see Mereghetti, S., et al. **278**, L23
- De Pauw, M., Aerts, C., Waelkens, C.: Mode identification of pulsating stars from line profile variations with the moment method. A theoretical study of the accuracy of the method **280**, 493
- De Petris, M., see de Bernardis, P., et al. **271**, 683
- De Rinaldis, A., see Caputo, F., et al. **276**, 41
- de Ruiter, H.R., see Parma, P., et al. **267**, 31
- De Santis, R., see Burchi, R., et al. **272**, 753 (**97**, 827)
- De Santis, R., see Piersimoni, A.M., et al. **279**, 681 (**101**, 195)
- de Souza, R., see Quintana, H. **279**, 675 (**101**, 475)
- de Vegt, C., Murray, C.A., Zacharias, N., Nicholson, W., Penston, M.J., Clube, S.V.M.: CPC2 – the Second Cape Photographic Catalogue. I. History, observations and plate measurements **272**, 755 (**97**, 985)
- de Vries, C., see Schönfelder, V., et al. **272**, 725 (**97**, 27)
- De Vries, C., see Collmar, W., et al. **272**, 728 (**97**, 71)
- de Vries, C., see Connors, A., et al. **272**, 728 (**97**, 75)
- de Vries, C., see Hermesen, W., et al. **272**, 730 (**97**, 97)
- de Vries, C., see Strong, A.W., et al. **272**, 732 (**97**, 133)
- de Vries, C., see Diehl, R., et al. **272**, 735 (**97**, 181)
- de Vries, C., see Lichti, G.G., et al. **272**, 736 (**97**, 215)
- de Vries, C., see Bennett, K., et al. **272**, 742 (**97**, 317)
- de Vries, H.W., see Heithausen, A., et al. **268**, 265
- de Waard, G.J., see Hooimeyer, J.R.A., et al. **268**, 831
- de Winter, D., see Thé, P.S., et al. **269**, 181
- de Zeeuw, P.T., see Buson, L.M., et al. **280**, 409
- Dean, A.J., see Grant, K.J. **272**, 736 (**97**, 211)
- Dean, A.J.: Imaging with INTEGRAL **272**, 745 (**97**, 361)
- Débarbat, S., see Sanchez, M., et al. **279**, 677 (**101**, 573)
- deBoer, H., see Diehl, R., et al. **272**, 735 (**97**, 181)
- Degenhardt, D.: On the origin of penumbral line asymmetries **277**, 235
- Degenhardt, D., see Wiehr, E. **278**, 584
- Degenhardt, D., Solanki, S.K., Montesinos, B., Thomas, J.H.: Evidence for siphon flows with shocks in solar magnetic flux tubes **279**, L29
- Degenhardt, U., Deinzer, W.: A flux tube-model for solar prominences **278**, 288
- Degl'Innocenti, S., see Castellani, V., et al. **271**, 601
- Degl'Innocenti, S., see Castellani, V., et al. **272**, 442
- Deharveng, J.M., see Barbieri, C., et al. **273**, 1
- Dehghani, M.H., Sobouti, Y.: Liouville's equation. V. The full symmetries of r^{-2} -potentials **275**, 91
- Deinzer, W., Grosser, H., Schmitt, D.: Torus dynamos for galaxies and accretion disks. I. The axisymmetric $\alpha\omega$ -dynamo embedded into vacuum **273**, 405
- Deinzer, W., see Degenhardt, U. **278**, 288
- Dejonghe, H., see Batsleer, P. **271**, 104
- Dejonghe, H., see Buson, L.M., et al. **280**, 409
- del Olmo, A., see Wanders, I., et al. **269**, 39
- del Rio, G., see Huestamendia, G., et al. **275**, 687 (**100**, 25)
- Del Zanna, G., see Salvati, M., et al. **274**, 174
- Delache, P., see Mosser, B., et al. **267**, 604
- Delache, P., see Vigouroux, A. **278**, 607
- Deleuil, M., Gry, C., Lagrange-Henri, A.-M., Vidal-Madjar, A., Beust, H., Ferlet, R., Moos, H.W., Livengood, T.A., Ziskin, D., Feldman, P.D., McGrath, M.A.: The β Pictoris circumstellar disk. XV. Highly ionized species near β Pictoris **267**, 187
- Deleuil, M., see Lecavelier des Etangs, A., et al. **274**, 877
- Della Valle, M., Duerbeck, H.W.: The space density of classical novae in the galactic disk **271**, 175
- Della Valle, M., Duerbeck, H.W.: Study of nova shells. I. V 1229 Aquilae (1970): nebular expansion parallax and luminosity **275**, 239
- Della Valle, M., see Danziger, I.J., et al. **276**, 382
- Demers, S., Lamontagne, R., Wesemael, F., Fontaine, G., Barnéoud, R., Irwin, M.J.: CCD sequences for the calibration of southern hemisphere survey plates. I **275**, 355 (**99**, 437)
- Demers, S., Lamontagne, R., Wesemael, F., Fontaine, G., Barnéoud, R., Irwin, M.J.: CCD sequences for the calibration of southern hemisphere survey plates. II **275**, 355 (**99**, 461)
- Demircan, O., Selam, S.O.: A period study of SS Arietis and its implications for the multiplicity of the system **267**, 107
- Demircan, O., Selam, S.O.: Long-term behaviour of the orbital period of Algol-type binary ST Persei **274**, 1012 (**98**, 513)

- Demircan, O., Akalin, A., Derman, E.: The light curve and period variation of BX Andromedae **274**, 1013 (**98**, 583)
- Démoulin, P., van Driel-Gesztelyi, L., Schmieder, B., Hénoux, J.C., Csepura, G., Hagyard, M.J.: Evidence for magnetic reconnection in solar flares **271**, 292
- Démoulin, P., see Mandrini, C.H., et al. **272**, 609
- Démoulin, P., see Titov, V.S., et al. **276**, 564
- den Herder, J.W., see Schönfelder, V., et al. **272**, 725 (**97**, 27)
- den Herder, J.W., see Collmar, W., et al. **272**, 728 (**97**, 71)
- den Herder, J.W., see Connors, A., et al. **272**, 728 (**97**, 75)
- den Herder, J.W., see Hermsen, W., et al. **272**, 730 (**97**, 97)
- den Herder, J.W., see Strong, A.W., et al. **272**, 732 (**97**, 133)
- den Herder, J.W., see Diehl, R., et al. **272**, 735 (**97**, 181)
- den Herder, J.W., see Lichti, G.G., et al. **272**, 736 (**97**, 215)
- den Herder, J.W., see Bennett, K., et al. **272**, 742 (**97**, 317)
- Denis, L., see Leblanc, Y., et al. **274**, 1012 (**98**, 529)
- Denis, M., see Laurent, P., et al. **272**, 737 (**97**, 225)
- Denis, M., see Barret, D., et al. **272**, 738 (**97**, 241)
- Denis, M., Roques, J.P., Barret, D., Lei, F., Lebrun, F., Claret, A., Goldwurm, A., Leray, J.P., Churazov, E., Gilfanov, M., Sunyaev, R., Bogomolov, A., Khavenson, N., Kuleshova, N., Tserenin, I., Sukhanov, K.: Discovery of the high energy emission from the transient X-ray pulsar GRS 0834-430 **272**, 743 (**97**, 333)
- Denis, M., see Laurent, P., et al. **278**, 444
- Denissov, A.A., see Galkin, S.A., et al. **269**, 256
- Dennefeld, M., see Vladilo, G., et al. **274**, 37
- Dennefeld, M., see Molaro, P., et al. **274**, 505
- Dennefeld, M., see Boller, T., et al. **279**, 53
- Denzau, H., see Hubbard, W.B., et al. **269**, 541
- Dere, K., see Wiik, J.E., et al. **273**, 267
- Derman, E., see Demircan, O., et al. **274**, 1013 (**98**, 583)
- Désert, F.-X., see Jenniskens, P. **274**, 465
- Désert, F.-X., see Jenniskens, P. **275**, 549
- Despois, D., see Crovisier, J., et al. **269**, 527
- Deubner, F.-L., see Marmolino, C., et al. **278**, 617
- Dezalay, J.P., see Lestrade, J.P., et al. **272**, 728 (**97**, 79)
- Dezalay, J.P., see Trotteit, G., et al. **272**, 743 (**97**, 337)
- Dezalay, J.P., see Atteia, J.-L. **274**, L1
- Dgani, R., Walder, R., Nussbaumer, H.: Stability analysis of colliding winds in a double star system **267**, 155
- Dgani, R.: 3D stability analysis of colliding winds in a double star system **271**, 527
- Dgani, R.: Dynamic artificial opacity for flux limited diffusion in hydrodynamics **273**, 338
- Dgani, R., see Knill, O., et al. **274**, 1002
- Di Benedetto, G.P.: Empirical effective temperatures and angular diameters of stars cooler than the Sun **270**, 315
- Di Cocco, G., see Caroli, E., et al. **272**, 746 (**97**, 393)
- Di Martino, M., see Martelli, G., et al. **271**, 315
- Di Paolantonio, A., see Burchi, R., et al. **272**, 753 (**97**, 827)
- Di Paolantonio, A., see Piersimoni, A.M., et al. **279**, 681 (**101**, 195)
- Diachkov, A., see Lestrade, J.P., et al. **272**, 728 (**97**, 79)
- Diachkov, A., see Laurent, P., et al. **272**, 737 (**97**, 225)
- Diachkov, A., see Laurent, P., et al. **278**, 444
- Dialetis, D., see Bratsolis, E., et al. **274**, 940
- Diamond, P.J., see Alberdi, A., et al. **277**, L1
- Diaz, M., see Ratering, C., et al. **268**, 694
- Dick, W.R., Tucholke, H.-J., Brosche, P., Galas, R., Geffert, M., Guibert, J.: Hipparcos link with Carte du Ciel triple images **279**, 267
- Dickel, J.R., Milne, D.K., Junkes, N., Klein, U.: N 63A: a supernova remnant within an H II region **275**, 265
- Didelon, P., see Lanz, T., et al. **272**, 465
- Diehl, R., see Schönfelder, V., et al. **272**, 725 (**97**, 27)
- Diehl, R., see Collmar, W., et al. **272**, 728 (**97**, 71)
- Diehl, R., see Connors, A., et al. **272**, 728 (**97**, 75)
- Diehl, R., see Hermsen, W., et al. **272**, 730 (**97**, 97)
- Diehl, R., see Strong, A.W., et al. **272**, 732 (**97**, 133)
- Diehl, R., Bennett, K., Bloemen, H., deBoer, H., Busetta, M., Collmar, W., Connors, A., den Herder, J.W., de Vries, C., Hermsen, W., Knödseder, J., Kuiper, L., Lichti, G.G., Lockwood, J., Macri, J., McConnell, M., Morris, D., Much, R., Ryan, J., Schönfelder, V., Simpson, G., Stacy, J.G., Steinle, H., Strong, A.W., Swanenburg, B.N., Varendorff, M., von Ballmoos, P.: First results from COMPTEL measurement of the ^{26}Al 1.8 MeV gamma-ray line from the Galactic center region **272**, 735 (**97**, 181)
- Diehl, R., see Lichti, G.G., et al. **272**, 736 (**97**, 215)
- Diehl, R., see Bennett, K., et al. **272**, 742 (**97**, 317)
- Diercksen, G.H.F., see Martin, I., et al. **277**, 363 (**100**, 595)
- Dietrich, M., see Wanders, I., et al. **269**, 39
- Dimitrijević, M.S., Sahal-Bréchet, S.: Stark broadening of spectral lines of multicharged ions of astrophysical interest. VII. Al III lines **275**, 356 (**99**, 585)
- Dimitrijević, M.S., Sahal-Bréchet, S.: Stark broadening of spectral lines of multicharged ions of astrophysical interest. VIII. VI lines **275**, 688 (**100**, 91)
- Dimitrijević, M.S., see Mihajlov, A.A., et al. **276**, 187
- Dimitrijević, M.S.: Electron-impact widths of four- and five-times charged ion lines of astrophysical importance **276**, 327 (**100**, 237)
- Dimitrijević, M.S.: Stark-Broadening parameters of spectral lines of astrophysical interest of neutral palladium **277**, 363 (**100**, 593)
- Dimitrijević, M.S., Popović, L.Č.: Stark broadening of Bi III lines of astrophysical interest **279**, 677 (**101**, 583)
- Dimitrijević, M.S., Sahal-Bréchet, S.: Stark broadening of spectral lines of multicharged ions of astrophysical interest. IX. Fv II lines **279**, 677 (**101**, 587)
- Dimitrijević, M.S., see Popović, L.Č., et al. **280**, 343 (**102**, 17)
- Ding, K.Y., see Cheng, K.S., et al. **275**, 53
- Ding, Y.J., see Li, K.J., et al. **269**, 496
- Dingus, B.L., see Hunter, S.D., et al. **272**, 59
- Disney, M.J., see Barbieri, C., et al. **273**, 1
- Djeniže, S., see Purić, J., et al. **280**, 349 (**102**, 607)
- Djurovic, D., Pâquet, P.: Quasi-biennial oscillation in green corona activity and Earth's rotation **277**, 669
- Doazan, V., de la Fuente, A., Barylak, M., Cramer, N., Maunon, N.: Radiative energy flux changes of Pleione in the far-UV through the Be-shell \rightarrow Be transition **269**, 415
- Docobo, J.A., see Couteau, P., et al. **276**, 328 (**100**, 305)
- Docobo, J.A., Prieto, C.: Micrometer measurements of visual double stars made at the Spanish observatories at Calar Alto and Fabra **277**, 364 (**100**, 641)
- D'Odorico, S., see Vermeulen, R.C., et al. **270**, 204
- D'Odorico, S., see Vladilo, G., et al. **274**, 37
- D'Odorico, S., see Molaro, P., et al. **274**, 505
- Döbereiner, S., see Kunz, M., et al. **268**, 116
- Döbereiner, S., see Sunyaev, R.A., et al. **280**, L1
- Doel, R.C., Gray, M.D., Field, D., Jones, K.N.: Physical conditions for far-infrared laser emission from dense OH maser regions **280**, 592
- Dogiel, V.A., see Bloemen, J.B.G.M., et al. **267**, 372
- Dogiel, V.A., Gurevich, A.V., Zybin, K.P.: Kinetic theory of propagation and "runaway" of galactic cosmic rays **268**, 356
- Dokuchaev, V.I., Karakula, S., Tkaczyk, W.: Supernova-like mechanism for cosmic-ray origin in AGN **272**, 731 (**97**, 109)
- Dolez, N., see Vauclair, G., et al. **267**, L35
- Dollfus, A., see Ebisawa, S. **272**, 671

- Domínguez, I., see Bravo, E., et al. **269**, 187
- Dominik, C., see Woitke, P., et al. **274**, 451
- Dominik, C., Sedlmayr, E., Gail, H.-P.: Dust formation in stellar winds. VI. Moment equations for the formation of heterogeneous and core-mantle grains **277**, 578
- Donati, J.-F., Catala, C.: Simulated imaging of the upper atmosphere of active stars **277**, 123
- Donati, J.-F., see Catala, C., et al. **278**, 187
- Donati, J.-F., see Semel, M., et al. **278**, 231
- Donner, K.J., see Brandenburg, A., et al. **271**, 36
- Donner, K.J., see Thomasson, M. **272**, 153
- Donner, K.J., Thomasson, M.: A gravitational galactic wake in the M 81 group **279**, 28
- Donner, K.J., see Sundin, M., et al. **280**, 105
- Donzelli, C., see Sérsic, J.L. **273**, 350 (**98**, 21)
- Dorfi, E.A., see Feuchtinger, M.U., et al. **273**, 513
- Dorfi, E.A., Böhringer, H.: X-rays from supernova remnants with particle acceleration **273**, 251
- Dorman, V.L., see Bloemen, J.B.G.M., et al. **267**, 372
- dos Santos, L.C., Jatenco-Pereira, V., Opher, R.: Effect of chemical abundance on a Wolf-Rayet stellar wind driven by radiation pressure and Alfvén waves **270**, 345
- Dotani, T., see Penninx, W., et al. **267**, 92
- Dougherty, S.M., Cramer, N., van Kerkwijk, M.H., Taylor, A.R., Waters, L.B.F.M.: Intrinsic IR colours of normal B-type stars using the Geneva visual and ESO IR photometric systems **273**, 503
- Douglas, N.G., see Frandsen, S., et al. **279**, 310
- Doumeau, G.: Orbital elements of the eight major satellites of Saturn determined from a fit of their theories of motion to observations from 1886 to 1985 **267**, 292
- Dovgopol, A.N., see Belskaya, I.N., et al. **279**, 676 (**101**, 507)
- Downes, D., see McKeith, C.D., et al. **272**, 98
- Doyle, J.G., see Quin, D.A., et al. **272**, 477
- Doyle, J.G., see Houdebine, E.R., et al. **274**, 245
- Doyle, J.G., see Houdebine, E.R., et al. **278**, 109
- Doyle, J.G., Mathioudakis, M., Murphy, H.M., Avgoloupis, S., Mavridis, L.N., Seiradakis, J.H.: Rotational modulation and flares on the RS Canum Venaticorum binary π Pegasi in July/September 1990: spots and flares on π Pegasi **278**, 499
- Doyle, J.G., see Mathioudakis, M. **280**, 181
- Dreissigacker, O., see Schramm, K.-J., et al. **278**, 391
- Dreizler, S.: Spectral analysis of extremely helium rich subdwarf O-stars **273**, 212
- Dreizler, S., Werner, K.: Line blanketing by iron group elements in non-LTE model atmospheres for hot stars **278**, 199
- Dremin, V., see Brandt, S., et al. **272**, 739 (**97**, 257)
- Dremin, V., see Castro-Tirado, A.J., et al. **272**, 743 (**97**, 329)
- Dressler, A., see Saglia, R.P., et al. **279**, 75
- Dreux, M., see Catala, C., et al. **275**, 245
- Drozdov, V.V., see Galkin, S.A., et al. **269**, 256
- Drozdova, O.M., see Galkin, S.A., et al. **269**, 256
- Druzhinin, S.A., see Mashnich, G.P., et al. **269**, 503
- Druzhinin, S.A., Pevtsov, A.A.: Line-of-sight velocity measurements using a dissector-tube. I. An instrument description **272**, 378
- Druzhinin, S.A., Pevtsov, A.A., Levkovsky, V.L., Nikonova, M.V.: Line-of-sight velocity measurements using a dissector-tube. II. Time variations of the tangential velocity component in the Evershed effect **277**, 242
- D'Silva, S., Choudhuri, A.R.: A theoretical model for tilts of bipolar magnetic regions **272**, 621
- Dubrovich, V., see de Bernardis, P., et al. **269**, 1
- Dubulle, B., Knobloch, E.: On instabilities in magnetized accretion disks **274**, 667
- Ducourant, C., see Rapaport, M., et al. **271**, 645
- Duemmler, R., see Sterken, C., et al. **280**, 344 (**102**, 79)
- Duerbeck, H.W., see Della Valle, M. **271**, 175
- Duerbeck, H.W., see Della Valle, M. **275**, 239
- Duerbeck, H.W., see Goecking, K.-D. **278**, 463
- Duerbeck, H.W., see Sterken, C., et al. **280**, 344 (**102**, 79)
- Duerbeck, H.W., see Van Winckel, H., et al. **280**, 348 (**102**, 401)
- Duffett-Smith, P.J., see Robson, M., et al. **277**, 314
- Dufton, P.L., Conlon, E.S., Keenan, F.P., McCausland, R.J.H., Holmgren, D.E.: Three stars at high galactic latitudes with peculiar helium abundances **269**, 201
- Dufton, P.L., see Rolleston, W.R.J., et al. **270**, 107
- Dufton, P.L., see Conlon, E.S., et al. **272**, 243
- Dufton, P.L., see Lennon, D.J., et al. **272**, 750 (**97**, 559)
- Dufton, P.L., see Rolleston, W.R.J., et al. **277**, 10
- Dufton, P.L., Holmgren, D., Conlon, E.S., Keenan, F.P.: The nature of the high latitude B-type binary, SU Piscium **278**, 68
- Dulk, G.A., see Lecacheux, A., et al. **275**, 670
- Dulk, G.A., see Leblanc, Y., et al. **276**, 603
- Duncan, W.D., see Casali, M.M., et al. **275**, 195
- Dunlop, S.R., see Telting, J.H., et al. **270**, 355
- Dunphy, P.P., see Chupp, E.L., et al. **275**, 602
- Dupraz, C., see Signore, M. **272**, 733 (**97**, 141)
- Dupraz, C., see Braine, J., et al. **272**, 754 (**97**, 887)
- Durand, N., see Bottinelli, L., et al. **280**, 344 (**102**, 57)
- Duric, N., Viallefond, F., Goss, W.M., van der Hulst, J.M.: The VLA-WSRT survey of M 33: statistical properties of a sample of optically selected supernova remnants **275**, 353 (**99**, 217)
- Durouchoux, P., Wallyn, P., Chapuis, C., Matteson, J., Bowman, B., Pelling, M., Peterson, L., Vedrenne, G., von Ballmoos, P., Malet, I., Niel, M., Lin, R., Feffer, P., Smith, D., Hurley, K.: High energy observation of the Galactic center region 511 keV and ^{26}Al lines with HEXAGONE **272**, 735 (**97**, 185)
- Durouchoux, P., see Smith, D.M., et al. **272**, 736 (**97**, 199)
- Durret, F., see Gerbal, D., et al. **273**, L9
- Durret, F., Boisson, C., Petitjean, P., Bergeron, J.: Long slit spectroscopy of extended ionized nebulosities around a sample of nearby Seyfert galaxies **273**, 355 (**98**, 365)
- Durret, F., see Petitjean, P. **277**, 365
- Durret, F., see Boisson, C., et al. **277**, 363 (**100**, 583)
- Duschinger, M., see Höflich, P., et al. **275**, L29
- Duschl, W.J., see von Linden, S., et al. **269**, 169
- Duschl, W.J., see Falcké, H., et al. **270**, 102
- Duschl, W.J., see Biermann, P.L., et al. **275**, 153
- Duschl, W.J., see Bruch, A. **275**, 219
- Duschl, W.J., see Bertout, C., et al. **275**, 236
- Duschl, W.J., see von Linden, S., et al. **280**, 468
- Dusi, W., see Caroli, E., et al. **272**, 746 (**97**, 393)
- Dutrey, A., Duvert, G., Castets, A., Langer, W.D., Bally, J., Wilson, R.W.: A multi-transition study of carbon monoxide in the Orion A molecular cloud. II. C ^{18}O **270**, 468
- Dutrey, A., see Guilloteau, S., et al. **279**, 661
- Duvert, G., see Dutrey, A., et al. **270**, 468
- Dvorak, R., Müller, P., Kallrath, J.: A survey of the dynamics of main-belt asteroids. I **274**, 627
- Dvorak, R., see Lohinger, E. **280**, 683
- Dworetzky, M.M., see Smalley, B. **271**, 515
- Dworetzky, M.M., see Smith, K.C. **274**, 335
- Dyachkov, A., see Cordier, B., et al. **272**, 277
- Dyachkov, A., see Sunyaev, R., et al. **272**, 729 (**97**, 85)
- Dyachkov, A., see Bassani, L., et al. **272**, 729 (**97**, 89)
- Dyachkov, A., see Churazov, E., et al. **272**, 734 (**97**, 173)
- Dyachkov, A., see Cordier, B., et al. **272**, 734 (**97**, 177)

- Dyachkov, A., see Grebenev, S., et al. **272**, 740 (97, 281)
- Dyachkov, A., see Goldwurm, A., et al. **272**, 741 (97, 293)
- Dyachkov, A., see Gilfanov, M., et al. **272**, 741 (97, 303)
- Dyer, C.S., see Johnson, W.N., et al. **272**, 725 (97, 21)
- Dyson, J.E., see Block, D.L., et al. **273**, L41
- Dzhalilov, N.S., see Zhugzhda, Y.D., et al. **278**, L9
- Eastman, W.A., see Spangler, S.R., et al. **267**, 213
- Ebeling, H., Voges, W., Böhringer, H., Edge, A.C.: Detection statistics of Abell and ACO clusters of galaxies in the ROSAT All-Sky Survey **275**, 360
- Eberhardt, P., see Meier, R., et al. **277**, 677
- Ebisawa, S., Dollfus, A.: Dust in the Martian atmosphere: polarimetric sensing **272**, 671
- Echevarría, J., Alvarez, M.: On the ephemeris of the cataclysmic variable V 2051 Ophiuchi: evidence of orbital period cyclic changes **275**, 187
- Echevarría, J., Costero, R., Michel, R.: Strömgren photometry of dwarf novae **275**, 201
- Eckart, A., see Rydbeck, G., et al. **270**, L13
- Edenhofer, P., see Pätzold, M., et al. **268**, L13
- Edge, A.C., see Ebeling, H., et al. **275**, 360
- Edvardsson, B., Andersen, J., Gustafsson, B., Lambert, D.L., Nissen, P.E., Tomkin, J.: The chemical evolution of the galactic disk. I. Analysis and results **275**, 101
- Edvardsson, B., Andersen, J., Gustafsson, B., Lambert, D.L., Nissen, P.E., Tomkin, J.: The chemical evolution of the galactic disk. II. Observational data **280**, 349 (102, 603)
- Edwards, S.A., Leach, S.: Simulated rotational band contours of C₆₀ and their comparison with some of the diffuse interstellar bands **272**, 533
- Efimov, Y.S., see Valtaoja, L., et al. **273**, 393
- Efimov, Y.S., see Valtaoja, L., et al. **278**, 371
- Efremov, V.V., see Kunz, M., et al. **268**, 116
- Efremov, V.V., see Sunyaev, R.A., et al. **280**, L1
- Ehgamberdiev, S., see Loudagh, S., et al. **275**, L25
- Ehgamberdiev, S., see Pallé, P.L., et al. **280**, 324
- Ehle, M., Beck, R.: Ionized gas and intrinsic magnetic fields in the spiral galaxy NGC 6946 **273**, 45
- Ehlers, J., see Bartelmann, M., et al. **280**, 351
- Ehrenfreund, P., see Vilhu, O., et al. **278**, 467
- Eiroa, C., see Gómez de Castro, A., et al. **267**, 559
- Eiroa, C., see Miranda, L.F., et al. **271**, 564
- Eiroa, C., see Casali, M.M., et al. **275**, 195
- Eissner, W., see Hummer, D.G., et al. **279**, 298
- Ekberg, J.O.: Wavelengths and transition probabilities of the $3d^6-3d^5 4p$ and $3d^5 4s-3d^5 4p$ transition arrays of Fe III **279**, 679 (101, 1)
- Elias, N.M., see Scaltriti, F., et al. **280**, 347 (102, 343)
- Ellinger, Y., see Talbi, D., et al. **268**, 805
- Elmegreen, B.G., Fiebig, D.: On the minimum length for magnetic waves in molecular clouds **270**, 397
- Elmegreen, B.G., see Combes, F. **271**, 391
- Elmegreen, B.G., Thomasson, M.: Grand design and flocculent spiral structure in computer simulations with star formation and gas heating **272**, 37
- Elósegui, P., see Alberdi, A., et al. **277**, L1
- Elsässer, H., see Klaas, U. **274**, 1015 (99, 71)
- Elsässer, H., see Klaas, U. **280**, 76
- Elstner, D., see Rüdiger, G., et al. **270**, 53
- Emanuele, A., see Bernacca, P.L., et al. **278**, L47
- Emelyanov, N.V., Vashkovyakov, S.N., Nasonova, L.P.: The dynamics of Martian satellites from observations **267**, 634
- Emerich, C., see Lemoine, M., et al. **269**, 469
- Emerson, D.T., see Lerner, M.S., et al. **280**, 117
- Encrenaz, P.J., see de Bernardis, P., et al. **269**, 1
- Encrenaz, P.J., Combes, F., Casoli, F., Gerin, M., Pagani, L., Horellou, C., Gac, C.: Water at $z = 2.286$? **273**, L19
- Engels, D., see Jordan, S., et al. **273**, L27
- Engels, D., see Vogel, S., et al. **273**, 353 (98, 193)
- Englhauser, J., see Kunz, M., et al. **268**, 116
- Epchtein, N., see Guglielmo, F., et al. **274**, 1015 (99, 31)
- Epreman, R.A., see Tovmassian, H.M., et al. **277**, 362 (100, 501)
- Epstein, R.I., see Fenimore, E.E., et al. **272**, 727 (97, 59)
- Erdl, H., Schneider, P.: Classification of the multiple deflection two point-mass gravitational lens models and application of catastrophe theory in lensing **268**, 453
- Ergma, E., see D'Antona, F. **269**, 219
- Ergma, E.: An accretion induced collapse model for the eclipsing binary pulsar PSR 1718-19 **273**, L38
- Ergma, E., Vilhu, O.: MS 1603.6+2600: a unique low-luminosity X-ray binary? **277**, 483
- Erikson, A., see Schober, H.J., et al. **279**, 676 (101, 499)
- Erikson, A., see Belskaya, I.N., et al. **279**, 676 (101, 507)
- Eriksson, K., Stenholm, L.: Detailed modelling of the shell around S Scuti **271**, 508
- Erkens, U., see Wagner, S.J., et al. **271**, 344
- Errico, L., see Giovannelli, F., et al. **272**, 747 (97, 395)
- Espagnet, O., Muller, R., Roudier, T., Mein, N.: Turbulent power spectra of solar granulation **271**, 589
- Estalella, R., Paredes, J.M., Rius, A., Martí, J., Peracaula, M.: Radio emission from RS CVn stars, Algol, and LSI+61°303 **268**, 178
- Estalella, R., see Massi, M., et al. **269**, 249
- Esteban, C., Smith, L.J., Vílchez, J.M., Clegg, R.E.S.: Spatially resolved spectroscopy of WR ring nebulae. IV. The fundamental parameters of the central stars **272**, 299
- Evans, A., Albinson, J.S., Barrett, P., Davies, J.K., Goldsmith, M.J., Hutchinson, M.G., Maddison, R.C.: The reddening and variability of XX Ophiuchi **267**, 161
- Evans, A., see Weight, A., et al. **268**, 294
- Everall, C., see Coe, M.J., et al. **272**, 738 (97, 245)
- Everall, C., see Roche, P., et al. **272**, 740 (97, 277)
- Evren, S., see Paparó, M., et al. **268**, 123
- Evren, S., see İbanoğlu, C., et al. **269**, 310
- Fabbri, R., Natale, V.: A new test for cosmic structure based on the anisotropy field of 60- μ m extragalactic IRAS sources **267**, L15
- Fabregat, J., see Roche, P., et al. **270**, 122
- Fabregat, J., see Coe, M.J., et al. **272**, 738 (97, 245)
- Fabregat, J., see Roche, P., et al. **272**, 740 (97, 277)
- Fabrika, S.N., see Vermeulen, R.C., et al. **270**, 204
- Facondi, S.R., see Vermeulen, R.C., et al. **270**, 189
- Fagotto, F., see Alongi, M., et al. **272**, 754 (97, 851)
- Fagotto, F., see Bressan, A., et al. **277**, 364 (100, 647)
- Fahr, H.-J., Fichtner, H., Scherer, K.: Determination of the heliospheric shock and of the supersonic solar wind geometry by means of the interstellar wind parameters **277**, 249
- Fahr, H.J., Rucinski, D., Judge, D.L.: Time- and space-variable structures of interstellar gas passing over the heliosphere: consequences for the interplanetary UV resonance glow **268**, 792
- Fahr, H.J., Osterbart, R., Rucinski, D.: The effect of the heliospheric interface filtration on the distant Lyman-Alpha glow and the pickup proton fluxes **274**, 612
- Fahr, H.J., see Ruderman, M.S. **275**, 635
- Falcke, H., Biermann, P.L., Duschl, W.J., Mezger, P.G.: A rotating black hole in the galactic center **270**, 102
- Falcke, H., Mannheim, K., Biermann, P.L.: The Galactic Center radio jet **278**, L1

- Fan, J.H., Xie, G.Z., Huang, Z.H.: Some statistical results for extragalactic radio jets **275, 688 (100, 103)**
- Fan, J.H., see Xie, G.Z., et al. **278, 6**
- Fan, X.H., Chen, J.-S.: Does the Lyman Limit System (LLS) evolve strongly? **277, L5**
- Fang, C., Hénoux, J.C., Gan, W.Q.: Diagnostics of non-thermal processes in chromospheric flares. I. $H\alpha$ and CaII K line profiles of an atmosphere bombarded by 10–500 keV electrons **274, 917**
- Fang, C., see Hénoux, J.C., et al. **274, 923**
- Fanti, C., see Akujor, C.E., et al. **274, 752**
- Fanti, R., see Parma, P., et al. **267, 31**
- Fanti, R., see Capetti, A., et al. **275, 354 (99, 407)**
- Faraoni, V.: On the rotation of polarization by a gravitational lens **272, 385**
- Farinella, P., see Martelli, G., et al. **271, 315**
- Farinella, P., Chauvineau, B.: On the evolution of binary Earth-approaching asteroids **279, 251**
- Farinella, P., see Vokrouhlický, D., et al. **280, 282**
- Farinella, P., see Vokrouhlický, D., et al. **280, 295**
- Faurobert-Scholl, M.: Investigation of microturbulent magnetic fields in the solar photosphere by their Hanle effect in the SrI 4607 Å line **268, 765**
- Favata, F., Barbera, M., Micela, G., Sciortino, S.: A search for yellow young disk population stars among EMSS stellar X-ray sources by means of lithium abundance determination **277, 428**
- Federici, L., see Battistini, P.L., et al. **272, 77**
- Federici, L., Bönoli, F., Ciotti, L., Fusi Pecci, F., Marano, B., Lipovetsky, V.A., Neizvestny, S.I., Spassova, N.: Kinematics of a sample of globular clusters in the halo and the mass of M 31 **274, 87**
- Federspiel, M., Mattig, W.: Oscillations in sunspots near the solar limb and the influence of seeing effects **276, 227**
- Feffer, P., see Durouchoux, P., et al. **272, 735 (97, 185)**
- Feffer, P., see Smith, D.M., et al. **272, 736 (97, 199)**
- Feffer, P.T., Lin, R.P., Smith, D.M., Hurley, K.C., Kane, S.R., McBride, S., Primbsch, J.H., Youssefi, K., Zimmer, G., Pelling, R.M., Cotin, F., Lavigne, J.M., Rouaix, G., Slassi, S., Vedrenne, G., Pehl, R., Cork, C., Luke, P., Madden, N., Malone, D.: Preliminary results from the High Resolution Gamma-ray and hard X-ray Spectrometer (HIREGS) long duration balloon flight in Antarctica **272, 726 (97, 31)**
- Fegan, D.J., see Akerlof, C.W., et al. **274, L17**
- Feix, M., see Muriel, A., et al. **279, 341**
- Fejes, I., see Vermeulen, R.C., et al. **270, 177**
- Fekel, F.C., see Strassmeier, K.G., et al. **275, 688 (100, 173)**
- Feldman, P.D., see Deleuil, M., et al. **267, 187**
- Feldt, C., Green, D.A.: CO and H_I associated with the supernova remnant G 84.2–0.8? **274, 421**
- Feldt, C.: The W 80 dark cloud: a case study of fragmentation. II. The H_I content **276, 531**
- Feldt, C., Wendker, H.J.: The W 80 dark cloud: a case study of fragmentation. I. The observations **276, 328 (100, 287)**
- Felenbok, P., see Catala, C., et al. **275, 245**
- Felli, M., see Massi, M., et al. **269, 249**
- Felli, M., Churchwell, E., Wilson, T.L., Taylor, G.B.: The radio continuum morphology of the Orion Nebula: from 10' to 0.1" resolution **273, 352 (98, 137)**
- Felli, M., Taylor, G.B., Catarzi, M., Churchwell, E., Kurtz, S.: The Orion radio zoo revisited: source variability **279, 680 (101, 127)**
- Felli, M., see Palagi, F., et al. **279, 681 (101, 153)**
- Felli, M., see Palla, F., et al. **280, 599**
- Fenimore, E.E., see Hurley, K., et al. **272, 726 (97, 39)**
- Fenimore, E.E., Epstein, R.I., Ho, C.: The escape of 100 MeV photons from cosmological gamma-ray bursts **272, 727 (97, 59)**
- Fennell, S., see Akerlof, C.W., et al. **274, L17**
- Feretti, L., see Mack, K.-H., et al. **280, 63**
- Ferlet, R., Lagrange-Henri, A.-M., Beust, H., Vitry, R., Zimmerman, J.-P., Martin, M., Char, S., Belmahdi, M., Clavier, J.-P., Coupiac, P., Foing, B.H., Sevre, F., Vidal-Madjar, A.: The β Pictoris protoplanetary system. XIV. Simultaneous observations of the CaII H and K lines: evidence for diffuse and broad absorption features **267, 137**
- Ferlet, R., see Deleuil, M., et al. **267, 187**
- Ferlet, R., see Lemoine, M., et al. **269, 469**
- Ferlet, R., see Lemoine, M., et al. **273, 611**
- Ferlet, R., see Vladilo, G., et al. **274, 37**
- Ferlet, R., see Lecavelier des Etangs, A., et al. **274, 877**
- Ferlet, R., see Molaro, P., et al. **274, 505**
- Ferlet, R., see Bertin, P., et al. **278, 549**
- Fernández, M., see Bouvier, J., et al. **272, 176**
- Fernández, M., see Bouvier, J., et al. **279, 675 (101, 485)**
- Fernández-Figueroa, M.J., Barrado, D., De Castro, E., Cornide, M.: Lithium abundance and activity in a sample of RS Canum Venaticorum and BY Draconis stars **274, 373**
- Fernie, J.D., see Zsoldos, E., et al. **275, 484**
- Fernley, J.A.: A re-analysis of the period shifts in RR Lyrae stars **268, 591**
- Fernley, J.A., Skillen, I., Burki, G.: Infrared photometry and radial velocities of field RR Lyrae **272, 753 (97, 815)**
- Ferrari, A., see Robberto, M., et al. **269, 330**
- Ferrari, M., Lemaître, G.: Analysis of large deflection zoom mirrors for the ESO Very Large Telescope Interferometer **274, 12**
- Ferreira, E.N., see Nesme-Ribes, E., et al. **274, 563**
- Ferreira, E.N., see Nesme-Ribes, E., et al. **276, 211**
- Ferreira, J., Pelletier, G.: Magnetized accretion-ejection structures. I. General statements **276, 625**
- Ferreira, J., Pelletier, G.: Magnetized accretion-ejection structures. II. Magnetic channeling around compact objects **276, 637**
- Ferrero, J.L., see Sanchez, F., et al. **272, 747 (97, 401)**
- Feuchtinger, M.U., Dorfi, E.A., Höfner, S.: Radiation hydrodynamics in atmospheres of long-period variables **273, 513**
- Fichtel, C.E., see Hunter, S.D., et al. **272, 59**
- Fichtel, C.E., Bertsch, D.L., Hartman, R.C., Hunter, S.D., Kanbach, G., Kniffen, D.A., Kwok, P.W., Lin, Y.C., Mattox, J.R., Mayer-Hasselwander, H.A., Michelson, P.F., von Montigny, C., Nolan, P.L., Pinkau, K., Rothermel, H., Schneid, E.J., Sommer, M., Sreekumar, P., Thompson, D.J.: Overview of the first results from EGRET **272, 725 (97, 13)**
- Fichtel, C.E., see von Montigny, C., et al. **272, 730 (97, 101)**
- Fichtel, C.E., see Kanbach, G., et al. **272, 744 (97, 349)**
- Fichtner, H., see Fahr, H.-J., et al. **277, 249**
- Fiebig, D., see Elmegreen, B.G. **270, 397**
- Fiedler, R.L., see Vermeulen, R.C., et al. **270, 189**
- Fiegle, K., see Wouterloot, J.G.A., et al. **274, 1013 (98, 589)**
- Field, D., see Doel, R.C., et al. **280, 592**
- Figuera, F., see Luri, X., et al. **267, 305**
- Finger, M.H., see Fishman, G.J., et al. **272, 725 (97, 17)**
- Finger, M.H., see Paciesas, W.S., et al. **272, 739 (97, 253)**
- Fink, H., see Boller, T., et al. **279, 53**
- Fink, H.H., Briel, U.G.: High-redshift quasar Q1745+624 observed in the ROSAT All-Sky Survey **274, L45**
- Fink, H.H., see Walter, R. **274, 105**
- Finoginov, A., see Bassani, L., et al. **272, 729 (97, 89)**
- Fiorentini, G., see Castellani, V., et al. **271, 601**
- Fischerström, C., see Gahm, G.F., et al. **276, 329 (100, 371)**
- Fishman, G.J., Meegan, C.A., Wilson, R.B., Paciesas, W.S., Pendleton, G.N., Harmon, B.A., Horack, J.M., Brock, M.N., Kouveliotou,

- C., Finger, M.H.: Overview of observations from BATSE on the compton Observatory **272**, 725 (97, 17)
- Fishman, G.J., see Hurley, K., et al. **272**, 726 (97, 39)
- Fishman, G.J., see Kouveliotou, C., et al. **272**, 727 (97, 55)
- Fishman, G.J., see Paciesas, W.S., et al. **272**, 739 (97, 253)
- Fitzsimmons, A., see Rolleston, W.R.J., et al. **270**, 107
- Fitzsimmons, A., see Lennon, D.J., et al. **272**, 750 (97, 559)
- Fitzsimmons, A.: CCD Strömgren *uvby* photometry of the young clusters NGC 1893, NGC 457, Berkeley 94 and Bochum 1 **274**, 1014 (99, 15)
- Fitzsimmons, A., see Rolleston, W.R.J., et al. **277**, 10
- Flasar, F.M., see Hubbard, W.B., et al. **269**, 541
- Fleck, B., Schmitz, F.: On the interactions of hydrodynamic shock waves in stellar atmospheres **273**, 671
- Fleck, B., see Marmolino, C., et al. **278**, 617
- Fleck, B., see Schmitz, F. **279**, 499
- Fleishman, G.D., see Bykov, A.M. **280**, L27
- Fleming, T., see Napiwotzki, R., et al. **278**, 478
- Floquet, M., see Catala, C., et al. **275**, 245
- Floquet, M., see Koubský, P., et al. **277**, 521
- Florida, E., see Garrido, J.L., et al. **271**, 84
- Flower, D.R., see Le Bourlot, J., et al. **267**, 233
- Fludra, A., see Sylwester, B., et al. **267**, 586
- Flynn, C., Freeman, K.C.: A catalog of K giants at the south galactic pole: broadband and DDO photometry and radial velocities **272**, 753 (97, 835)
- Flynn, C., Röser, S.: Space motions of distant red giants: the disk – halo overlap **280**, 131
- Focardi, P., see Galli, M., et al. **279**, 336 (101, 259)
- Foing, B.H., see Ferlet, R., et al. **267**, 137
- Foing, B.H., see Houdebine, E.R., et al. **274**, 245
- Foing, B.H., see Catala, C., et al. **275**, 245
- Foing, B.H., see Char, S. **276**, 69
- Foing, B.H., see Char, S., et al. **276**, 78
- Foing, B.H., see Houdebine, E.R., et al. **278**, 109
- Foing, B.H., see Vilhu, O., et al. **278**, 467
- Fontaine, G., see Demers, S., et al. **275**, 355 (99, 437)
- Fontaine, G., see Demers, S., et al. **275**, 355 (99, 461)
- Forrest, R.W., see Hubbard, W.B., et al. **269**, 541
- Forsström, V., see Zinchenko, I., et al. **275**, L9
- Fort, B., see Kneib, J.-P., et al. **273**, 367
- Fort, B., see Bonnet, H., et al. **280**, L7
- Forveille, T., see Omont, A., et al. **267**, 515
- Forveille, T., see Bachiller, R., et al. **267**, 177
- Forveille, T., see Kastner, J.H., et al. **275**, 163
- Forveille, T., see Loup, C., et al. **275**, 354 (99, 291)
- Fossat, E., see Loudagh, S., et al. **275**, L25
- Fossat, E., see Ulrich, R.K., et al. **280**, 268
- Fossat, E., see Pallé, P.L., et al. **280**, 324
- Fouqué, P., see Guglielmo, F., et al. **274**, 1015 (99, 31)
- Fouqué, P., Gieren, W.P.: On the difficulty of determining the color-term in the Cepheid PLC relation **275**, 213
- Fouqué, P., Proust, D., Quintana, H., Ramirez, A.: Dynamics of the Pavo-Indus and Grus clouds of galaxies **277**, 361 (100, 493)
- Fouqué, P., see Bottinelli, L., et al. **280**, 344 (102, 57)
- Fox, G.K., see Wood, K., et al. **271**, 492
- Fradkin, M., see Olive, J.-F., et al. **272**, 743 (97, 325)
- Fradkin, M.I., see Leikov, N.G., et al. **272**, 744 (97, 345)
- Franchini, M., see Alcalá, J.M., et al. **272**, 225
- Franchini, M., see Morossi, C., et al. **277**, 173
- François, P., see Spite, M., et al. **271**, L1
- François, P., Spite, M., Spite, F.: On the galactic age problem: determination of the [Th/Eu] ratio in halo stars **274**, 821
- François, P., Matteucci, F.: On the abundance spread in solar neighbourhood stars **280**, 136
- Francou, G., see Brumberg, V.A., et al. **275**, 651
- Frandsen, S., Douglas, N.G., Butcher, H.R.: An astronomical seismometer **279**, 310
- Frank, A., see Balick, B., et al. **275**, 588
- Fransson, C., see de Boer, K.S., et al. **280**, L15
- Frayser, D.T., see Jorissen, A., et al. **271**, 463
- Freeman, K.C., see Winsall, M.L. **268**, 443
- Freeman, K.C., see Flynn, C. **272**, 753 (97, 835)
- Friaça, A.C.S.: Formation and evolution of cluster cooling flows **269**, 145
- Fridlund, C.V.M., Knee, L.B.G.: The molecular outflow very near L 1551 IRS 5 **268**, 245
- Fridlund, C.V.M., Liseau, R., Perryman, M.A.C.: High-resolution spectrophotometric imaging of the Herbig-Haro object HH 29 in the L 1551 outflow **273**, 601
- Fried, J.W., Stickel, M., Kühr, H.: An imaging study of the environments of radio-selected BL Lac objects **268**, 53
- Fried, J.W., see Stickel, M., et al. **272**, 749 (97, 483)
- Fried, J.W., see Stickel, M., et al. **274**, 1011 (98, 393)
- Fried, J.W., see Schulz, H., et al. **277**, 416
- Friedemann, C., Reimann, H.-G., Gürtler, J., Tóth, V.: The cloudy circumstellar dust shell of WW Vulpeculae revisited **277**, 184
- Friedli, D., Benz, W.: Secular evolution of isolated barred galaxies. I. Gravitational coupling between stellar bars and interstellar medium **268**, 65
- Friedli, D., see Pfenniger, D. **270**, 573
- Friedli, D., Martinet, L.: Bars within bars in lenticular and spiral galaxies: a step in secular evolution? **277**, 27
- Friel, E., Cayrel de Strobel, G., Chmielewski, Y., Spite, M., Lèbre, A., Bontolila, C.: In search of real solar twins. III. **274**, 825
- Friel, E.D., Janes, K.A.: Metallicities and radial velocities of old open clusters **267**, 75
- Froeschlé, C., see Bendjoya, P., et al. **272**, 651
- Froeschlé, C., see Morbidelli, A., et al. **278**, 644
- Frontó, A., see Abraham, P., et al. **268**, 230
- Frutti, M., see Giovannelli, F., et al. **272**, 747 (97, 395)
- Fry, W.F., see Buccheri, R., et al. **277**, 353
- Fuente, A., Cernicharo, J., García-Burillo, S., Tejero, J.: A search for molecular oxygen in cold dark clouds **275**, 558
- Fuente, A., Martín-Pintado, J., Cernicharo, J., Bachiller, R.: A chemical study of the photodissociation region NGC 7023 **276**, 473
- Fürst, E., Reich, W., Seiradakis, J.H.: A new pulsar-supernova remnant association: PSR 2334+61 and G 114.3+0.3 **276**, 470
- Fuhr, W., Stagnu, J., Schulz, A., Hills, R.E., Lasenby, A.N., Lasenby, J., Miller, M., Schieder, R., Stutzki, J., Vowinkel, B., Winnewisser, G.: Surface adjustment of the KOSMA 3 m telescope using phase retrieval "holography" **274**, 975
- Fuhrmann, K., Axer, M., Gehren, T.: Balmer lines in cool dwarf stars. I. Basic influence of atmospheric models **271**, 451
- Fukushima, T., see Hosokawa, M., et al. **278**, L27
- Fulle, M., Bosio, S., Cremonese, G., Cristaldi, S., Liller, W., Panscchi, L.: The dust environment of comet Austin 1990 V **272**, 634
- Fulle, M., Mennella, V., Rotundi, A., Colangeli, L., Bussolletti, E., Pasian, F.: The dust environment of comet P/Grigg-Skjellerup as evidenced from ground-based observations **276**, 582
- Fullerton, A.W., see Puls, J., et al. **279**, 457
- Fusi Pecci, F., see Battistini, P.L., et al. **272**, 77
- Fusi Pecci, F., see Federici, L., et al. **274**, 87
- Fusi Pecci, F., see Guarnieri, M.D., et al. **280**, 348 (102, 397)
- Gabler, A., see Sellmaier, F., et al. **273**, 533

- Gabler, R., see Sellmaier, F., et al. 273, 533
- Gabriel, A., see Baudin, F., et al. 276, L1
- Gabriel, M.: The probability-density function of solar p modes and the location of the excitation mechanism 274, 931
- Gabriel, M.: On the location of the excitation of solar p-modes 274, 935
- Gac, C., see Encrenaz, P.J., et al. 273, L19
- Gäng, T., see Stahl, O., et al. 274, L29
- Gäng, T., see Stahl, O., et al. 274, 1016 (99, 165)
- Gahm, G.F., Johansson, L.E.B., Liseau, R.: CO observations of the Lupus dark clouds 274, 415
- Gahm, G.F., Gullbring, E., Fischerström, C., Lindroos, K.P., Lodén, K.: A decade of photometric observations of young stars – with special comments on periodicities 276, 329 (100, 371)
- Gahm, G.F., Liseau, R., Gullbring, E., Hartstein, D.: The circumstellar gleam from the T Tauri star RY Lupi 279, 477
- Gaidos, J.A., see Akerlof, C.W., et al. 274, L17
- Gaigé, Y.: Stellar rotational velocities from the $V \sin i$ observations: inversion procedures and applications to open clusters 269, 267
- Gail, H.-P., see Dominik, C., et al. 277, 578
- Gaisser, T.K., see Stanev, T., et al. 274, 902
- Galas, R., see Dick, W.R., et al. 279, 267
- Galkin, S.A., Denisov, A.A., Drozdov, V.V., Drozdova, O.M.: A finite-difference adaptive grid method for computing the equilibria of rotating self-gravitating barotropic gases 269, 256
- Galletta, G., see Arnaboldi, M. 268, 411
- Galletta, G., see Bettoni, D., et al. 280, L21
- Galli, M., Cappi, A., Focardi, P., Gregorini, L., Vettolani, G.: Redshifts of southern rich clusters 279, 336 (101, 259)
- Gallino, R., see Matteucci, F., et al. 272, 421
- Galper, A.M., see Olive, J.-F., et al. 272, 743 (97, 325)
- Galper, A.M., see Leikov, N.G., et al. 272, 744 (97, 345)
- Gammelgaard, P., see Kahl Kristensen, L. 272, 345
- Gan, W.Q., see Fang, C., et al. 274, 917
- Gan, W.Q., see Hénoux, J.C., et al. 274, 923
- Gangopadhyay, P., see Blum, P., et al. 272, 549
- Garay, G., see Rubio, M., et al. 271, 1
- Garay, G., Rubio, M., Ramírez, S., Johansson, L.E.B., Thaddeus, P.: Molecular clouds in the 30 Doradus halo 274, 743
- Garay, G., see Israel, F.P., et al. 276, 25
- Garay, G., Mardones, D., Mirabel, I.F.: CO(2→1) and $^{13}\text{CO}(1\rightarrow0)$ emission from luminous southern infrared galaxies 277, 405
- García, A.M., Bottinelli, L., Garnier, R., Gougouenheim, L., Paturel, G.: New H I observations for some edge-on spiral galaxies 272, 753 (97, 801)
- García, A.M., Paturel, G., Bottinelli, L., Gougouenheim, L.: General study of group membership. I. The sample 273, 350 (98, 7)
- García, A.M.: General study of group membership. II. Determination of nearby groups 275, 687 (100, 47)
- García, C., see Campos-Aguilar, A., et al. 276, 16
- García, J.M., see Clausen, J.V., et al. 279, 677 (101, 563)
- García de la Rosa, J.I., see Aballe Villero, M.A., et al. 267, 275
- García Gómez, C., Athanassoula, E.: Analysis of the distribution of H II regions in external galaxies. II. Analysis of the spiral structure 276, 330 (100, 431)
- García Gómez, C., see Athanassoula, E., et al. 280, 345 (102, 229)
- García López, R.J., Rebolo, R., Beckman, J.E., McKeith, C.D.: A study of activity in F-type main-sequence stars using the D_3 line of He I 273, 482
- García López, R.J., see McKeith, C.D., et al. 273, 331
- García López, R.J., see Char, S., et al. 276, 78
- García-Burillo, S., Guélin, M., Cernicharo, J.: CO in Messier 51. I. Molecular spiral structure 274, 123
- García-Burillo, S., Combes, F., Gerin, M.: CO in Messier 51. II. Molecular cloud dynamics 274, 148
- García-Burillo, S., see Fuente, A., et al. 275, 558
- García-Lario, P., Manchado, A., Sahu, K.C., Pottasch, S.R.: IRAS 06562-0337: final mass-loss episodes before the formation of a planetary nebula? 267, L11
- García-Lario, P., see Parthasarathy, M., et al. 267, L19
- Garilli, B., Maccagni, D., Tarenghi, M.: Galaxy velocities in eight southern clusters 275, 687 (100, 33)
- Garmany, C.D., see St-Louis, N., et al. 267, 447
- Garnier, R., see García, A.M., et al. 272, 753 (97, 801)
- Garnier, R., see Bottinelli, L., et al. 280, 344 (102, 57)
- Garrido, J.L., Battaner, E., Sánchez-Saavedra, M.L., Florido, E.: On the coherent orientation of spins of spiral galaxies 271, 84
- Garrido, R., see Breger, M., et al. 271, 482
- Garrido, R., see Rodríguez, E., et al. 273, 473
- Garrington, S.T., see Conway, R.G., et al. 267, 347
- Garrington, S.T., see Akujor, C.E., et al. 274, 752
- Gautier, D., see Mosser, B., et al. 267, 604
- Gautier, D., see Hubbard, W.B., et al. 269, 541
- Gautier, D., see Guilloteau, S., et al. 279, 661
- Gay, J., see Mosser, B., et al. 267, 604
- Gay, J., see Lopez, B., et al. 270, 462
- Geballe, T.R., see Waters, L.B.F.M., et al. 272, L9
- Geballe, T.R., see Block, D.L., et al. 273, L41
- Geballe, T.R., see Hanson, M.M., et al. 273, L44
- Geballe, T.R., see Aspin, C., et al. 278, 255
- Geffert, M., see Dick, W.R., et al. 279, 267
- Gehrels, N., Chipman, E., Kniffen, D.A.: The Compton Gamma Ray Observatory 272, 724 (97, 5)
- Gehrels, N., see Pietsch, W., et al. 273, L11
- Gehren, T., see Fuhrmann, K., et al. 271, 451
- Gehring, G., see Meaburn, J., et al. 276, L21
- Geiss, J., see Altwegg, K., et al. 279, 260
- Gelfreikh, G.B., see Alissandrakis, C.E., et al. 270, 509
- Gelly, B., see Loudagh, S., et al. 275, L25
- Gelly, B., see Ulrich, R.K., et al. 280, 268
- Gelly, B., see Pallé, P.L., et al. 280, 324
- Gensterblum, G., see Papoular, R., et al. 270, L5
- Genzel, R., see Rydbeck, G., et al. 270, L13
- Georgelin, Y., see le Coarer, E., et al. 280, 365
- Georgelin, Y.P., see Rosado, M., et al. 272, 541
- Gerardi, G., see Olive, J.F., et al. 272, 742 (97, 321)
- Gerardi, G., see Olive, J.F., et al. 272, 743 (97, 335)
- Gerbal, D., Durret, F., Lachièze-Rey, M., Lima-Neto, G.: Answer to Milgrom's criticisms 273, L9
- Gerbault, A., see Leblanc, Y., et al. 274, 1012 (98, 529)
- Gerin, M., Viala, Y., Casoli, F.: The abundance of nitric oxide in TMC 1 268, 212
- Gérin, M., see Braine, J., et al. 272, 754 (97, 887)
- Gerin, M., see Encrenaz, P.J., et al. 273, L19
- Gerin, M., see García-Burillo, S., et al. 274, 148
- Gerin, M., see Casoli, F. 279, L41
- Gervasi, M., see de Bernardis, P., et al. 271, 683
- Geyer, E.H., see Hubbard, W.B., et al. 269, 541
- Geyer, E.H., see Müller, R. 270, 557
- Geyer, E.H., see Hoffmann, M. 279, 678 (101, 621)
- Ghosh, K.K., Soundararajaperumal, S.: X-ray spectral variability of the Seyfert galaxy NGC 4593 273, 397
- Giacconi, R., see Hasinger, G., et al. 275, 1
- Giallongo, E., see Cristiani, S., et al. 268, 86
- Giannuzzo, E., Salvati, M.: Delay mapping of the scattering medium in active galactic nuclei 272, 411

- Giannuzzo, E., see Salvati, M., et al. **274**, 174
- Gibb, A.G., Heaton, B.D.: The star-forming region around HH 24-26: a revised morphology **276**, 511
- Gibert, D., see Baudin, F., et al. **276**, L1
- Giblin, I., see Martelli, G., et al. **271**, 315
- Gieren, W.P., see Fouqué, P. **275**, 213
- Gil, J.A., Jessner, A., Kramer, M.: Are there really planets around PSR 1257+12? **271**, L17
- Gil, J.A., see Wielebinski, R., et al. **272**, L13
- Gil, J.A., Kijak, J., Życki, P.: A model for polarization of pulsar radiation **272**, 207
- Gil, J.A., Kijak, J., Seiradakis, J.H.: On the two-dimensional structure of pulsar beams **272**, 268
- Gil, J.A., Kijak, J.: Period dependence of radio emission altitudes in the pulsar magnetosphere **273**, 563
- Gilfanov, M., see Cordier, B., et al. **272**, 277
- Gilfanov, M., see Mandrou, P., et al. **272**, 724 (**97**, 1)
- Gilfanov, M., see Sunyaev, R., et al. **272**, 729 (**97**, 85)
- Gilfanov, M., see Bassani, L., et al. **272**, 729 (**97**, 89)
- Gilfanov, M., see Churazov, E., et al. **272**, 734 (**97**, 173)
- Gilfanov, M., see Cordier, B., et al. **272**, 734 (**97**, 177)
- Gilfanov, M., see Lei, F., et al. **272**, 735 (**97**, 189)
- Gilfanov, M., see Laurent, P., et al. **272**, 737 (**97**, 225)
- Gilfanov, M., see Barret, D., et al. **272**, 738 (**97**, 241)
- Gilfanov, M., see Grebenev, S., et al. **272**, 740 (**97**, 281)
- Gilfanov, M., see Goldwurm, A., et al. **272**, 741 (**97**, 293)
- Gilfanov, M., Churazov, E., Sunyaev, R., Grebenev, S., Pavlinsky, M., Dyachkov, A., Kovtunenkov, V., Kremnev, R., Goldwurm, A., Ballet, J., Laurent, P., Paul, J., Jourdain, E., Schmitz-Fraysse, M.C., Roques, J.P., Mandrou, P.: The spectra of Nova Muscae 1991 between 3 keV and 1 MeV observed with GRANAT **272**, 741 (**97**, 303)
- Gilfanov, M., see Denis, M., et al. **272**, 743 (**97**, 333)
- Gilfanov, M., see Cordier, B., et al. **275**, L1
- Gilfanov, M., see Laurent, P., et al. **278**, 444
- Gilfanov, M.R., see Pan, H.C., et al. **272**, 740 (**97**, 273)
- Gillet, D., see Breitfellner, M.G. **277**, 524
- Gillet, D., see Breitfellner, M.G. **277**, 541
- Gillet, D., see Breitfellner, M.G. **277**, 553
- Gillet, D., see Mathias, P. **278**, 511
- Gilmozzi, R., see Shrader, C.R., et al. **272**, 742 (**97**, 309)
- Giménez, A., Guinan, E.F., González-Riestra, R.: UV and X-ray emission in the interacting binary U Cephei **272**, 739 (**97**, 261)
- Giménez, A., see Andersen, J., et al. **277**, 439
- Giménez, A., see Claret, A. **277**, 487
- Giménez, A., see Clausen, J.V., et al. **279**, 677 (**101**, 563)
- Giovannelli, F., see Polcaro, V.F., et al. **272**, 732 (**97**, 139)
- Giovannelli, F., Sabau Graziati, L., La Padula, C., Errico, L., Frutti, M., Inarta, S., Mancini, D., Marozzi, S., Porzio, V., Vittone, A.A.: SIXE (Spanish-Italian X-ray Experiment) **272**, 747 (**97**, 395)
- Giovannelli, F., see Polcaro, V.F., et al. **273**, L49
- Giovannini, G., see Mack, K.-H., et al. **280**, 63
- Girardi, L., Bica, E.: Colour evolution models and the distribution of LMC clusters in the integrated *UBV* plane **274**, 279
- Girardi, M., see Giuricin, G., et al. **275**, 390
- Giraud, E., see Melnick, J., et al. **271**, L5
- Giraud-Héraud, Y., see Baillon, P., et al. **277**, 1
- Giraud-Héraud, Y., see Coron, N., et al. **278**, L31
- Giridhar, S., see Rao, N.K., et al. **280**, 201
- Giuricin, G., Biviano, A., Girardi, M., Mardirossian, F., Mezzetti, M.: Effects of interactions on the nuclear near-infrared properties of spiral galaxies **275**, 390
- Glasner, A., Buchler, J.R.: On the spectrum of the linear nonadiabatic radial stellar modes **277**, 69
- Glassmeier, K.-H., see Neubauer, F.M., et al. **268**, L5
- Glendinning, R., see Aspin, C., et al. **278**, 255
- Goad, M.R., see Wanders, I., et al. **269**, 39
- Goehrmann, J., Grothues, H.-G., Oestreicher, M.O., Berghöfer, T., Schmidt-Kaler, T.: *UBV* photometry of galactic foreground and LMC member stars. I. Galactic foreground stars **275**, 356 (**99**, 591)
- Godefroid, M., see Hibbert, A., et al. **274**, 1016 (**99**, 177)
- Goebel, J.H.: SiS₂ in circumstellar shells **278**, 226
- Goecking, K.-D., Duerbeck, H.W.: The spectroscopic orbit of ϵ Coronae Austrinae, an evolved W Ursae Majoris system **278**, 463
- Goedbloed, J.P., see Halberstadt, G. **280**, 647
- Goicoechea, L.J.: The motion of the Local Group with respect to the microwave background frame: local anomaly and effect of clusters at distances $>40 \text{ h}^{-1} \text{ Mpc}$ **269**, L9
- Golay, M., see Courtès, G., et al. **268**, 419
- Goldbach, C., see Coron, N., et al. **278**, L31
- Golds, G., see le Coarer, E., et al. **280**, 365
- Goldsmith, M.J., see Evans, A., et al. **267**, 161
- Goldstein, R., see Altwegg, K., et al. **279**, 260
- Goldwurm, A., see Cordier, B., et al. **272**, 277
- Goldwurm, A., see Sunyaev, R., et al. **272**, 729 (**97**, 85)
- Goldwurm, A., see Churazov, E., et al. **272**, 734 (**97**, 173)
- Goldwurm, A., see Cordier, B., et al. **272**, 734 (**97**, 177)
- Goldwurm, A., see Barret, D., et al. **272**, 738 (**97**, 241)
- Goldwurm, A., Ballet, J., Laurent, P., Paul, J., Jourdain, E., Bouchet, L., Mandrou, P., Roques, J.P., Churazov, E., Gilfanov, M., Sunyaev, R., Dyachkov, A., Khavenson, N., Kremnev, R., Sukhanov, K., Kuleshova, N.: SIGMA observations of the X-ray nova in Musca **272**, 741 (**97**, 293)
- Goldwurm, A., see Gilfanov, M., et al. **272**, 741 (**97**, 303)
- Goldwurm, A., see Denis, M., et al. **272**, 743 (**97**, 333)
- Goldwurm, A., see Cordier, B., et al. **275**, L1
- Golla, G., see Dahlem, M., et al. **270**, 29
- Gómez, A.E., see Comerón, F., et al. **279**, 679 (**101**, 37)
- Gómez, J.L., Alberdi, A., Marcaide, J.M.: Synchrotron emission from bent shocked relativistic jets. I. Bent relativistic jets **274**, 55
- Gomez, M.T., see Caccin, B., et al. **276**, 219
- Gómez de Castro, A., Miranda, L.F., Eiroa, C.: A kinematical study of the jet GGD 34 **267**, 559
- Gómez de Castro, A.I., see Miranda, L.F., et al. **271**, 564
- Gonçalves, D.R., Jatenco-Pereira, V., Opher, R.: Extragalactic jets driven by Alfvén waves **279**, 351
- Gonczy, R., see Benest, D., et al. **271**, 621
- Gondhalekar, P., see Wanders, I., et al. **269**, 39
- Gontier, A.-M., see Capitaine, N. **275**, 645
- Gontikakis, C., Hameury, J.-M.: Constraints on the illumination model for soft X-ray transients **271**, 118
- González-Alfonso, E., Cernicharo, J.: HCN hyperfine anomalies in dark clouds **279**, 506
- Gonzalez-Mestres, L., see Coron, N., et al. **278**, L31
- González-Riestra, R., see Giménez, A., et al. **272**, 739 (**97**, 261)
- Gonzalez-Riestra, R., see Shrader, C.R., et al. **272**, 742 (**97**, 309)
- Gonzalez-Riestra, R., see Shrader, C.R. **276**, 373
- Goossens, M., see Murawski, K. **279**, 225
- Gopal-Krishna, see Melnick, J., et al. **271**, L5
- Gopal-Krishna, Wiita, P.J., Altieri, B.: Optical microvariability and radio quiet QSOs **271**, 89
- Gopal-Krishna, Spoelstra, T.A.T.: A sample of gigahertz-peaked-spectrum radio sources: List 3 **271**, 101
- Gopal-Krishna, Yates, M., Wiita, P.J., Smette, A., Pati, A., Altieri, B.: Near-infrared and optical imaging of Q 2345+007: the largest gravitationally lensed QSO system? **280**, 360

- Goranskij, V.P., see Aslanov, A.A., et al. **270**, 200
- Gordon, M.A., Berkemann, U., Mezger, P.G., Zylka, R., Haslam, C.G.T., Kreysa, E., Sievers, A., Lemke, R.: Anatomy of the Sagittarius complex. III. Morphology and characteristics of the Sgr B2 giant molecular cloud **280**, 208
- Goret, P., Palfrey, T., Tabary, A., Vacanti, G., Bazer-Bachi, R.: Observations of TeV gamma rays from the Crab nebula **270**, 401
- Goret, P., see Coron, N., et al. **278**, L31
- Gorrod, M.J., see Coe, M.J., et al. **272**, 738 (**97**, 245)
- Gorti, U., Bhatt, H.C.: Anomalous dust in the environment of Herbig Ae/Be stars **270**, 426
- Goss, W.M., see Roberts, D.A., et al. **274**, 427
- Goss, W.M., see Duric, N., et al. **275**, 353 (**99**, 217)
- Goss, W.M., see Van Langevelde, H.J., et al. **279**, 680 (**101**, 109)
- Gottlöber, S., Mückel, J.P.: Microwave background temperature fluctuations resulting from nonflat perturbation spectra **272**, 1
- Goudfrooij, P., see Nørgaard-Nielsen, H.U., et al. **279**, 61
- Goudis, C.D., see Christopoulou, P.-E. **272**, 407
- Gouguenheim, L., see Garcia, A.M., et al. **272**, 753 (**97**, 801)
- Gouguenheim, L., see Garcia, A.M., et al. **273**, 350 (**98**, 7)
- Gouguenheim, L., see Bottinelli, L., et al. **280**, 344 (**102**, 57)
- Gouiffes, C., see Cristiani, S., et al. **268**, 86
- Gouiffes, C., see Mazzali, P.A., et al. **269**, 423
- Goupil, M.-J., see Buchler, J.R., et al. **280**, 157
- Goupil, M.J., Michel, E., Lebreton, Y., Baglin, A.: Seismology of δ Scuti stars - GX Pegasi **268**, 546
- Gourgoulhon, E., Haensel, P.: Upper bounds on the neutrino burst from collapse of a neutron star into a black hole **271**, 187
- Gourgoulhon, E., see Bonazzola, S., et al. **278**, 421
- Gouttebroze, P., see Toutain, T. **268**, 309
- Gouttebroze, P., Heinzel, P., Vial, J.C.: The hydrogen spectrum of model prominences **275**, 355 (**99**, 513)
- Grabelsky, D.A., see Johnson, W.N., et al. **272**, 725 (**97**, 21)
- Grabowski, U., see Stix, M., et al. **272**, 340
- Grady, C.A., see Pérez, M.R., et al. **274**, 381
- Grady, C.A., Pérez, M.R., Thé, P.S.: The accreting circumstellar gas envelope of HD 176386 a young star in the R Coronae Austrinae star formation region **274**, 847
- Graeter, M.: Evidence for a shock front in a flare loop of June 20, 1989 **273**, 354 (**98**, 261)
- Graham, D., see Truong-Bach, et al. **277**, 133
- Graham, D.A., see Alberdi, A., et al. **271**, 93
- Graham, D.A., see Krichbaum, T.P., et al. **275**, 375
- Grant, K.J., Dean, A.J.: An analysis of nuclear γ -ray line profiles from SN 1987A **272**, 736 (**97**, 211)
- Grappin, R., see Chantry, P., et al. **272**, 555
- Graser, U., see von Linde, J., et al. **267**, L23
- Gratton, R., see Pallavicini, R., et al. **267**, 145
- Gratton, R., see Matteucci, F., et al. **272**, 421
- Gratton, R., see Randich, S., et al. **273**, 194
- Gray, M.D., see Doel, R.C., et al. **280**, 592
- Gray, R.O.: The calibration of Strömgren photometry for A, F and early G supergiants. III. The A and early F supergiants **273**, 349
- Grebél, E.K., see Heydari-Malayeri, M., et al. **278**, 11
- Grebenev, S., Sunyaev, R., Pavlinsky, M., Churazov, E., Gilfanov, M., Dyachkov, A., Khavenson, N., Sukhanov, K., Laurent, P., Ballet, J., Claret, A., Cordier, B., Jourdain, E., Niel, M., Pelaez, F., Schmitz-Fraysse, M.C.: Observations of black hole candidates with GRANAT **272**, 740 (**97**, 281)
- Grebenev, S., see Gilfanov, M., et al. **272**, 741 (**97**, 303)
- Grec, G., see Loudagh, S., et al. **275**, L25
- Grec, G., see Ulrich, R.K., et al. **280**, 268
- Grec, G., see Pallé, P.L., et al. **280**, 324
- Greco, V., Molesini, G., Quercioli, F., Righini, A.: An interferometric approach to the measurement of the diffuse light from optical surfaces and systems **277**, 345
- Gredel, R., van Dishoeck, E.F., Black, J.H.: The abundance of CH⁺ in translucent molecular clouds: further tests of shock models **269**, 477
- Gredel, R., see Israel, F.P., et al. **276**, 25
- Green, D.A., see Feldt, C. **274**, 421
- Greenberg, J.M., see Jenniskens, P., et al. **273**, 583
- Greenberg, J.M., see Jenniskens, P. **274**, 439
- Greenfield, P., see Barbieri, C., et al. **273**, 1
- Greggio, L., see Alongi, M., et al. **272**, 754 (**97**, 851)
- Gregorini, L., see Spangler, S.R., et al. **267**, 213
- Gregorini, L., see Galli, M., et al. **279**, 336 (**101**, 259)
- Gregorini, L., see Bondi, M., et al. **279**, 338 (**101**, 431)
- Gregorio-Hetem, J., Castilho, B.V., Barbuy, B.: IRAS colours of L-rich giants **268**, L25
- Gregorio-Hetem, J., see Barbuy, B., et al. **279**, 338 (**101**, 409)
- Greiner, J., see Boër, M., et al. **272**, 728 (**97**, 69)
- Greiner, J., see Collmar, W., et al. **278**, 728 (**97**, 71)
- Grenier, I.A., Hermsen, W., Henriksen, R.N.: The spectral variability of the γ -ray emission from Geminga and Vela and its implications **269**, 209
- Grenier, I.A., see Olive, J.-F., et al. **272**, 743 (**97**, 325)
- Grenier, I.A., see Leikov, N.G., et al. **272**, 744 (**97**, 345)
- Greve, A., see McKeith, C.D., et al. **272**, 98
- Greve, A., see Krichbaum, T.P., et al. **275**, 375
- Greve, A., van Genderen, A.M., Augusteijn, T.: Global photometric structure of the Orion nebula **275**, 356 (**99**, 577)
- Greve, A., see Steppe, H., et al. **280**, 350 (**102**, 611)
- Grevesse, N., Noels, A., Sauval, A.J.: A revision of the solar abundance of dysprosium **271**, 587
- Grevesse, N., see Bizzarri, A., et al. **273**, 707
- Grewing, M., see Krichbaum, T.P., et al. **275**, 375
- Griffin, J.L., see Aspin, C., et al. **278**, 255
- Griffin, R.E.M., Hünsch, M., Marshall, K.P., Griffin, R.F., Schröder, K.-P.: Optical spectra of ζ Aurigae binary systems. V. The 1988 eclipse of 22 Vulpeculae **274**, 225
- Griffin, R.F.: The K-type supergiant HR 237 (HD 4817) **268**, 615
- Griffin, R.F., see Griffin, R.E.M., et al. **274**, 225
- Grindlay, J.E.: Identification of the sigma source near 3C 273: a new class of AGN? **272**, 731 (**97**, 113)
- Grindlay, J.E., Covault, C.E., Manandhar, R.P.: EXITE observation of the Galactic center: a new transient? **272**, 733 (**97**, 155)
- Grindlay, J.E., see Skinner, G.K. **276**, 673
- Grison, P., see Pakull, M.W., et al. **278**, L39
- Groenewegen, M.A.T., de Jong, T.: Synthetic AGB evolution. I. A new model **267**, 410
- Groenewegen, M.A.T.: On the infrared properties of S-stars with and without technetium **271**, 180
- Groenewegen, M.A.T., de Jong, T.: Optical photometry of carbon stars **279**, 336 (**101**, 267)
- Groenewegen, M.A.T., de Jong, T., Baas, F.: Near-infrared and submillimeter photometry of carbon stars **279**, 676 (**101**, 513)
- Groote, D., see Vogel, S., et al. **273**, 353 (**98**, 193)
- Gros, M., see Olive, J.-F., et al. **272**, 743 (**97**, 325)
- Gros, M., see Leikov, N.G., et al. **272**, 744 (**97**, 345)
- Grosser, H., see Deinzer, W., et al. **273**, 405
- Grothues, H.-G., see Gochermann, J., et al. **275**, 356 (**99**, 591)
- Grove, J.E., see Johnson, W.N., et al. **272**, 725 (**97**, 21)
- Gruber, D.E., see Kunz, M., et al. **268**, 116
- Grundseth, B., see Hua, C.T., et al. **279**, 676 (**101**, 541)
- Gry, C., see Deleuil, M., et al. **267**, 187

- Gry, C., see Lecavelier des Etangs, A., et al. 274, 877
 Grygar, J., see Chochol, D., et al. 277, 103
 Grygorczuk, J., see Olive, J.-F., et al. 272, 743 (97, 325)
 Gu, X.M., see Li, K.J., et al. 269, 496
 Guarnieri, M.D., Bragaglia, A., Fusi Pecci, F.: Colour magnitude diagram for the globular cluster M 13 280, 348 (102, 397)
 Güdel, M.: Radio and X-ray emission from main-sequence K stars 273, 719
 Guélin, M., see García-Burillo, S., et al. 274, 123
 Guélin, M., Zylka, R., Mezger, P.G., Haslam, C.G.T., Kreysa, E., Lemke, R., Sievers, A.W.: 1.3 mm emission in the disk of NGC 891: evidence of cold dust 279, L37
 Guélin, M., Lucas, R., Cernicharo, J.: MgNC and the carbon-chain radicals in IRC+10216 280, L19
 Guenther, E., Hessman, F.V.: The spectral variability of DR Tauri 268, 192
 Guenther, E., Hessman, F.V.: Variable redshifted He I absorption lines in BM Andromedae 276, L25
 Guérin, J., see Catala, C., et al. 275, 245
 Guerrero, G., see Bossi, M., et al. 269, 343
 Gürtler, J., see Friedemann, C., et al. 277, 184
 Güsten, R., see Hauschildt, H., et al. 273, L23
 Guglielmo, F., Epchtein, N., Le Bertre, T., Fouqué, P., Hron, J., Kerschbaum, F., Lépine, J.R.D.: Identification of 106 new infrared carbon stars in the IRAS Point Source Catalog: near-infrared photometry and their space distribution in the Galaxy 274, 1015 (99, 31)
 Guibert, J., see Pakull, M.W., et al. 278, L39
 Guibert, J., see Dick, W.R., et al. 279, 267
 Guilloteau, S., see Omont, A., et al. 267, 490
 Guilloteau, S., Dutrey, A., Marten, A., Gautier, D.: CO in the troposphere of Neptune: detection of the $J=1-0$ line in absorption 279, 661
 Guilloteau, S., see Lequeux, J., et al. 280, 23
 Guinan, E.F., see Giménez, A., et al. 272, 739 (97, 261)
 Gullbring, E., see Gahm, G.F., et al. 276, 329 (100, 371)
 Gullbring, E., see Gahm, G.F., et al. 279, 477
 Gummersbach, C.A., see Stahl, O., et al. 274, L29
 Gurevich, A.V., see Dogiel, V.A., et al. 268, 356
 Gurgiolo, C., see Johnstone, A.D., et al. 273, L1
 Gustafsson, B., see Edvardsson, B., et al. 275, 101
 Gustafsson, B., see Edvardsson, B., et al. 280, 349 (102, 603)
 Györi, L., see Bumba, V., et al. 276, 193
 Györi, L.: Determination of atmospheric refraction from the distortion of the Sun's disc 278, 659
 Haas, M., Christou, J.C., Zinnecker, H., Ridgway, S.T., Leinert, C.: Sub-diffraction-limited infrared speckle observations of Z Canis Majoris, a 0.10 variable binary star 269, 282
 Haas, M., see Leinert, C., et al. 271, 535
 Haas, M., see Leinert, C., et al. 278, 129
 Haberl, F., see Pietsch, W., et al. 273, L11
 Haberl, F., see Mavromatakis, F. 274, 304
 Haberl, F., White, N.E.: A ROSAT observation of δ Orionis A 280, 519
 Habing, H.J., see Blommaert, J.A.D.L., et al. 267, 39
 Habing, H.J., see Omont, A., et al. 267, 515
 Habing, H.J., see Van Langevelde, H.J., et al. 279, 680 (101, 109)
 Haensel, P., see Gourgoulhon, E. 271, 187
 Haerendel, G., see Xilouris, K.M., et al. 270, 393
 Hagan, J., see Akerlof, C.W., et al. 274, L17
 Hagen, H.-J., see Vogel, S., et al. 273, 353 (98, 193)
 Hagen-Thorn, V.A., see Reshetnikov, V.P., et al. 275, 353 (99, 257)
 Hagen-Thorn, V.A., see Reshetnikov, V.P., et al. 278, 351
 Hagyard, M.J., see Démoulin, P., et al. 271, 292
 Hahn, G., see Schober, H.J., et al. 279, 676 (101, 499)
 Haikala, L.K., see Harju, J., et al. 278, 569
 Haيمان, Z., see Magnier, E.A., et al. 278, 36
 Halberstadt, G., Goedbloed, J.P.: The continuous Alfvén spectrum of line-tied coronal loops 280, 647
 Hall, D.S., see Strassmeier, K.G., et al. 275, 688 (100, 173)
 Hall, P.J., see Nyman, L.-Å., et al. 280, 551
 Halm, I., Jansen, F., de Niem, D.: Cosmic antiprotons in the diffusion model. I. General properties in comparison with other models 269, 601
 Hamann, W.-R., Koesterke, L., Wessolowski, U.: Spectral analyses of the galactic Wolf-Rayet stars: a comprehensive study of the WN class 274, 397
 Hambly, N.C., Hawkins, M.R.S., Jameson, R.F.: Very low mass proper motion members in the Pleiades 277, 364 (100, 607)
 Hameury, J.-M., see Gontikakis, C. 271, 118
 Hameury, J.-M.: Hard X-rays from binaries 272, 738 (97, 235)
 Hameury, J.-M., King, A.R., Lasota, J.-P., Raison, F.: Structure and evolution of X-ray heated compact binaries 277, 81
 Hammer, F., see Tresse, L., et al. 277, 53
 Hammer, R., see Nesis, A., et al. 279, 599
 Hammerschlag-Hensberge, G., see Kaper, L., et al. 279, 485
 Hanasz, M., Lesch, H.: Magnetic buoyancy and the galactic dynamo 278, 561
 Hankins, T.H., see McKinnon, M.M. 269, 325
 Hanlon, L., see Collmar, W., et al. 272, 728 (97, 71)
 Hanlon, L., see Connors, A., et al. 272, 728 (97, 75)
 Hansen, L., see Nørgaard-Nielsen, H.U., et al. 279, 61
 Hanslmeier, A., Nesis, A., Mattig, W.: Dynamics of the solar granulation: coherence of line parameters and their variation with the height 270, 516
 Hanslmeier, A., see Nesis, A., et al. 279, 599
 Hanson, M.M., Geballe, T.R., Conti, P.S., Block, D.L.: On the nature of the stellar cluster at the Rosette GMC CO peak 273, L44
 Hanuschik, R.W., Dachs, J., Baudzus, M., Thimm, G.: $H\alpha$ outbursts of μ Centauri: a clue to the Be phenomenon? 274, 356
 Harju, J., Walmsley, C.M., Wouterloot, J.G.A.: Ammonia clumps in the Orion and Cepheus clouds 273, 351 (98, 51)
 Harju, J., Haikala, L.K., Mattila, K., Mauersberger, R., Booth, R.S., Nordh, H.L.: Large-scale structure of the R Coronae Australis cloud core 278, 569
 Harmanec, P., see Koubský, P., et al. 277, 521
 Harmanec, P., Scholz, G.: Orbital elements of β Lyrae after the first 100 years of investigation 279, 131
 Harmon, B.A., see Fishman, G.J., et al. 272, 725 (97, 17)
 Harmon, B.A., see Paciesas, W.S., et al. 272, 739 (97, 253)
 Harnett, J., see Lesch, H. 268, 58
 Harnett, J.I., see Junkes, N., et al. 269, 29
 Harnett, J.I., see Junkes, N., et al. 274, 1009
 Harper, D., Taylor, D.B.: The orbits of the major satellites of Saturn 268, 326
 Harper, D., see Beurle, K., et al. 269, 564
 Harris, M.J., see Share, G.H., et al. 272, 744 (97, 341)
 Harrison, R.A., Carter, M.K., Clark, T.A., Lindsey, C., Jefferies, J.T., Sime, D.G., Watt, G., Roellig, T.L., Becklin, E.E., Naylor, D.A., Tompkins, G.J., Braun, D.: An active solar prominence in 1.3 mm radiation 274, L9
 Hartman, R.C., see Hunter, S.D., et al. 272, 59
 Hartman, R.C., see Fichtel, C.E., et al. 272, 725 (97, 13)
 Hartman, R.C., see von Montigny, C., et al. 272, 730 (97, 101)
 Hartman, R.C., see Kanbach, G., et al. 272, 744 (97, 349)
 Hartmann, D., The, L.-S., Clayton, D.D., Leising, M., Mathews, G.,

- Woosley, S.E.: Gamma ray constraints on the Galactic supernova rate **272**, 737 (97, 219)
- Hartmann, D., see Boër, M., et al. **277**, 503
- Hartner, G., see Hasinger, G., et al. **275**, 1
- Hartstein, D., see Gahm, G.F., et al. **279**, 477
- Hasan, S., see Bünte, M., et al. **273**, 287
- Hashimoto, M., see Kumagai, S., et al. **273**, 153
- Hasinger, G., see Schaeidt, S., et al. **270**, L9
- Hasinger, G., see Belloni, T., et al. **271**, 487
- Hasinger, G., see Magnier, E.A., et al. **272**, 695
- Hasinger, G., Burg, R., Giacconi, R., Hartner, G., Schmidt, M., Trümper, J., Zamorani, G.: A deep X-ray survey in the Lockman Hole and the soft X-ray log N -log S **275**, 1
- Hasinger, G., see Magnier, E.A., et al. **278**, 36
- Hasinger, G., see van der Klis, M., et al. **279**, L21
- Haslam, C.G.T., see Chini, R., et al. **272**, L5
- Haslam, C.G.T., see Guélin, M., et al. **279**, L37
- Haslam, C.G.T., see Gordon, M.A., et al. **280**, 208
- Hauck, B., North, P.: Effective temperature of Ap and Am stars from Geneva photometry **269**, 403
- Hauschildt, H., Güsten, R., Phillips, T.G., Schilke, P., Serabyn, E., Walker, C.K.: First detection of CS (10-9) in galactic star forming cores **273**, L23
- Hawkins, M.R.S., see Hambly, N.C., et al. **277**, 364 (100, 607)
- Haynes, R.F., see Junkes, N., et al. **269**, 29
- Haynes, R.F., see Klein, U., et al. **271**, 402
- Haynes, R.F., see Junkes, N., et al. **274**, 1009
- Hazlehurst, J.: The equilibrium of a contact binary **271**, 209
- He, Y.P., see Zhao, J.L., et al. **276**, 327 (100, 243)
- Heaton, B.D., see Gibb, A.G. **276**, 511
- Heaton, B.D., Little, L.T., Yamashita, T., Davies, S.R., Cunningham, C.T., Monteiro, T.S.: The structure of G 34.3+0.2 deduced from multitransition molecular line observations of HCO⁺ **278**, 238
- Heber, U., Bade, N., Jordan, S., Voges, W.: PG 0824+289: a dwarf carbon star with a visible white dwarf companion **267**, L31
- Heber, U., see Jeffery, C.S. **270**, 167
- Heber, U., see Jordan, S., et al. **273**, L27
- Heber, U., see Theissen, A., et al. **273**, 524
- Heck, A., see Sterken, C., et al. **280**, 344 (102, 79)
- Heck, A.: StarGuides. A directory of astronomy, space sciences and related organizations of the world (Announcement of a catalogue) **280**, 344 (102, 85)
- Heck, A.: StarBriefs. A dictionary of abbreviations, acronyms, and symbols in astronomy, space sciences, and related fields (Announcement of a catalogue) **280**, 344 (102, 87)
- Heemskerk, M.H.M., see Savonije, G.J. **276**, 409
- Heidt, J., see von Linde, J., et al. **267**, L23
- Heidt, J., see Schramm, K.-J., et al. **278**, 391
- Hein, H., see Krichbaum, T.P., et al. **275**, 375
- Heintz, W.D.: Orbits of visual binaries **273**, 353 (98, 209)
- Heintz, W.D.: The substellar masses of Wolf 424. II **277**, 452
- Heinzel, P., see Gouttebroze, P., et al. **275**, 355 (99, 513)
- Heise, J., see van Teeseling, A., et al. **270**, 159
- Heise, J., see van Teeseling, A., et al. **273**, 721
- Heithausen, A., see Boden, K.-P. **268**, 255
- Heithausen, A., Stacy, J.G., de Vries, H.W., Mebold, U., Thaddeus, P.: A composite large-scale CO survey at high galactic latitudes in the second quadrant **268**, 265
- Heithausen, A., see Herbstmeier, U., et al. **272**, 514
- Heithausen, A., see Schreiber, W., et al. **276**, L5
- Held, E.V., see Arnaboldi, M., et al. **267**, 21
- Held, E.V., see Capaccioli, M., et al. **274**, 69
- Helt, B.E., Jørgensen, H.E., King, S., Larsen, A.: NJL 5: the eclipsing blue straggler in ω Centauri **270**, 297
- Helt, B.E., see Clausen, J.V., et al. **279**, 677 (101, 563)
- Henkel, C., Mauersberger, R., Wiklind, T., Hüttemeister, S., Lemme, C., Millar, T.J.: Dense gas in nearby galaxies. VI. A large $^{12}\text{C}/^{13}\text{C}$ ratio in a nuclear starburst environment **268**, L17
- Henkel, C., see Becker, R., et al. **268**, 483
- Henkel, C., see Wilson, T.L., et al. **268**, 249
- Henkel, C., see Dahlem, M., et al. **270**, 29
- Henkel, C., see Wiklind, T., et al. **271**, 71
- Henkel, C., Stickel, M., Salzer, J.J., Hopp, U., Brouillet, N., Baudry, A.: A possible protogalaxy near M 81 **273**, L15
- Henkel, C., Mauersberger, R.: C and O nucleosynthesis in starbursts: the connection between distant mergers, the Galaxy, and the solar system **274**, 730
- Henkel, C., see Wilson, T.L., et al. **276**, L29
- Henkel, C., see Hüttemeister, S., et al. **276**, 445
- Henney, C.J., see Ulrich, R.K., et al. **280**, 268
- Henning, P.A., Sancisi, R., McNamara, B.R.: New Westerbork observations of the H I cloud near NGC 4472 **268**, 536
- Henning, T., Pfau, W., Zinnecker, H., Prusti, T.: A 1.3 mm survey for circumstellar dust around young Chamaeleon objects **276**, 129
- Henning, T., see Preibisch, T., et al. **279**, 577
- Henning, T., Stognienko, R.: Porous grains and polarization of light: the silicate features **280**, 609
- Hénoux, J.C., see Démoulin, P., et al. **271**, 292
- Hénoux, J.C., see Mandrini, C.H., et al. **272**, 609
- Hénoux, J.C., see Fang, C., et al. **274**, 917
- Hénoux, J.C., Fang, C., Gan, W.Q.: Diagnostics of non-thermal processes in chromospheric flares. II. H α and Ca II K line profiles for an atmosphere bombarded by 100 keV–1 MeV protons **274**, 923
- Hénoux, J.C., see Karlický, M. **278**, 627
- Henriksen, R.N., see Grenier, I.A., et al. **269**, 209
- Henriksen, R.N., see Rauzy, S., et al. **273**, 357
- Henry, J.P., Briel, U.G., Nulsen, P.E.J.: The distribution of dark matter in the A 2256 cluster **271**, 413
- Henry, J.P., see Briel, U.G. **278**, 379
- Henry, R.B.C., see Baffa, C., et al. **280**, 20
- Henry, R.B.C., see Banfi, M., et al. **280**, 373
- Hensberge, H., Hiesgen, M., see Sterken, C., et al. **280**, 344 (102, 79)
- Hensler, G., see Theis, C. **280**, 85
- Henton, S.M., see Craig, I.J.D., et al. **267**, L39
- Herbig, T., see Venturi, T., et al. **271**, 65
- Herbst, E., see Jacq, T., et al. **271**, 276
- Herbstmeier, U., see Kerp, J., et al. **268**, L21
- Herbstmeier, U., Heithausen, A., Mebold, U.: Tracing the molecular hydrogen content of the Draco nebula: very low $N(\text{H}_2)/W(^{12}\text{CO})$ ratios or varying FIR-emissivities? **272**, 514
- Herbstmeier, U., see Roberts, D.A., et al. **274**, 427
- Hermesen, W., see Grenier, I.A., et al. **269**, 209
- Hermesen, W., see Schönfelder, V., et al. **272**, 725 (97, 27)
- Hermesen, W., see Collmar, W., et al. **272**, 728 (97, 71)
- Hermesen, W., see Connors, A., et al. **272**, 728 (97, 75)
- Hermesen, W., Aarts, H.J.M., Bennett, K., Bloemen, H., de Boer, H., Collmar, W., Connors, A., Diehl, R., van Dijk, R., den Herder, J.W., Kuiper, L., Lichti, G.G., Lockwood, J.A., Macri, J., McConnell, M., Morris, D., Ryan, J.M., Schönfelder, V., Simpson, G., Steinle, H., Strong, A.W., Swanenburg, B.N., de Vries, C., Webber, W.R., Williams, W., Winkler, C.: COMPTEL detections of the quasars 3C 273 and 3C 279 **272**, 730 (97, 97)
- Hermesen, W., see Strong, A.W., et al. **272**, 732 (97, 133)
- Hermesen, W., see Diehl, R., et al. **272**, 735 (97, 181)
- Hermesen, W., see Lichti, G.G., et al. **272**, 736 (97, 215)

- Hermesen, W., see Bennett, K., et al. 272, 742 (97, 317)
- Hernanz, M., see José, J., et al. 269, 291
- Hes, R., Peletier, R.F.: The bulge of M 104: stellar content and kinematics 268, 539
- Hessman, F.V., see Guenther, E. 268, 192
- Hessman, F.V., see Guenther, E. 276, L25
- Hetem Jr., A., Lépine, J.R.D.: Fractal 3-D simulations of molecular clouds 270, 451
- Heydari-Malayeri, M., see Pagani, L., et al. 275, 573
- Heydari-Malayeri, M., Grebel, E.K., Melnick, J., Jorda, L.: HDE 269828: a reddened massive star cluster 278, 11
- Hibbert, A., Biémont, E., Godefroid, M., Vaecq, N.: Accurate f values of astrophysical interest for neutral carbon 274, 1016 (99, 177)
- Higgs, L.A., see Landecker, T.L., et al. 276, 522
- Hill, F., see Lazrek, M. 280, 704
- Hill, G., Khalessheh, B.: Studies of early-type variable stars. IX. The orbit and physical parameters of V 1425 Cygni 276, 57
- Hill, G., Perry, C.L., Khalessheh, B.: Studies of early-type variable stars. X. Reticon-based radial velocities of β Persei 279, 677 (101, 579)
- Hill, G.M., see Strassmeier, K.G., et al. 268, 671
- Hill, G.M., Landstreet, J.D.: Compositional differences among the A-type stars. I. Six narrow-lined stars 276, 142
- Hillas, A.M., see Akerlof, C.W., et al. 274, L17
- Hillier, D.J., Kudritzki, R.P., Pauldrach, A.W., Baade, D., Cassinelli, J.P., Puls, J., Schmitt, J.H.M.M.: The 0.1–2.5 keV X-ray spectrum of the O4f star ζ Puppis 276, 117
- Hills, R.E., see Fuhr, W., et al. 274, 975
- Hirabayashi, H., see Lerner, M.S., et al. 280, 117
- Hirata, R., see Kambe, E., et al. 273, 435
- Hjellming, R.M., see Umana, G., et al. 267, 126
- Hjellming, R.M., see Vermeulen, R.C., et al. 270, 189
- Ho, C., see Fenimore, E.E., et al. 272, 727 (97, 59)
- Hoang-Binh, D.: Multiplet oscillator strengths for excited atomic magnesium 272, 752 (97, 769)
- Hoang-Binh, D., see Van Regemorter, H. 277, 623
- Hodges, M.W., see Lerner, M.S., et al. 280, 117
- Hodges, R.R., see Meier, R., et al. 277, 677
- Höflich, P., Müller, E., Khokhlov, A.: Light curve models for type Ia supernovae: physical assumptions, their influence and validity 268, 570
- Höflich, P., see Bravo, E., et al. 269, 187
- Höflich, P., see Khokhlov, A., et al. 270, 223
- Höflich, P., Müller, E., Khokhlov, A.: Gamma-ray light curves and spectra for SN Ia 272, 737 (97, 221)
- Höflich, P., Langer, N., Duschinger, M.: SN 1993J: explosion of a massive cool supergiant with a small envelope mass? 275, L29
- Höfner, S., see Feuchtinger, M.U., et al. 273, 513
- Hoekzema, N.M., Lamers, H.J.G.L.M., van Genderen, A.M.: Walraven photometry of stars near the luminous blue variable AG Carinae 274, 1012 (98, 505)
- Hoff, W., see Schramm, K.-J., et al. 278, 391
- Hoffmann, B., see Kimeswenger, S., et al. 272, 749 (97, 517)
- Hoffmann, M., see Hubbard, W.B., et al. 269, 541
- Hoffmann, M., Geyer, E.H.: Spots on (4) Vesta and (7) Iris: large areas or little patches? 279, 678 (101, 621)
- Hofmann, K.-H., Weigel, G.: Iterative image reconstruction from the bispectrum 278, 328
- Hofmann, K.-H., see Reinheimer, T., et al. 279, 322
- Holdaway, M.A., see Cornwell, T.J., et al. 271, 697
- Holenstein, B.D., see Scaltriti, F., et al. 280, 347 (102, 343)
- Holl, A., see Ábrahám, P., et al. 268, 230
- Hollander, A., Kraakman, H., van Paradijs, J.: Walraven photometry of eight cataclysmic variables 279, 680 (101, 87)
- Hollis, A.J., see Hubbard, W.B., et al. 269, 541
- Holmgren, D., see Dufton, P.L., et al. 278, 68
- Holmgren, D.E., see Dufton, P.L., et al. 269, 201
- Holt, S.S.: High energy spectroscopy with the AXAF 272, 745 (97, 367)
- Holweger, H., see Napiwotzki, R., et al. 278, 478
- Hood, A.W., see Oliver, R., et al. 273, 647
- Hooimeyer, J.R.A., Miley, G.K., de Waard, G.J., Schilizzi, R.T.: Spectral monitoring of powerful radio sources 268, 831
- Hopp, U., see von Linde, J., et al. 267, L23
- Hopp, U., see Henkel, C., et al. 273, L15
- Horack, J.M., see Fishman, G.J., et al. 272, 725 (97, 17)
- Horellou, C., see Encrenaz, P.J., et al. 273, L19
- Horn, J., see Koubský, P., et al. 277, 521
- Horne, K., see Wanders, I., et al. 269, 39
- Horne, K., see Shrader, C.R., et al. 272, 742 (97, 309)
- Horne, K., see Wolf, S., et al. 273, 160
- Hosokawa, M., Ohnishi, K., Fukushima, T., Takeuti, M.: Parallactic variation of gravitational lensing and measurement of stellar mass 278, L27
- Houdebine, E.R., Foing, B.H., Doyle, J.G., Rodonò, M.: Dynamics of flares on late-type dMe stars. II. Mass motions and prominence oscillations during a flare on AD Leonis 274, 245
- Houdebine, E.R., Foing, B.H., Doyle, J.G., Rodonò, M.: Dynamics of flares on late-type dMe stars. III. Kinetic energy and mass momentum budget of a flare on AD Leonis 278, 109
- Hovenier, J.W., see Wauben, W.M.F., et al. 276, 241
- Hovenier, J.W., see Wauben, W.M.F., et al. 276, 589
- Hovenier, J.W., see Wauben, W.M.F., et al. 277, 666
- Hovhannessian, R.K., see Tovmassian, H.M., et al. 277, 362 (100, 501)
- Howarth, I.D., see St-Louis, N., et al. 267, 447
- Howarth, I.D., see Rolleston, W.R.J., et al. 277, 10
- Howarth, I.D., Reid, A.H.N.: UES and IUE observations of the O9.5 V star HD 93521: non-radial pulsations, wind, and distance 279, 148
- Hoyng, P.: Helicity fluctuations in mean field theory: an explanation for the variability of the solar cycle? 272, 321
- Hric, L., see Chochol, D., et al. 277, 103
- Hron, J., see Guglielmo, F., et al. 274, 1015 (99, 31)
- Hu, J.Y., Slijkhuis, S., Nguyen-Q-Rieu, de Jong, T.: IRAS 17150–3224: a young, optically bipolar, proto-planetary nebula 273, 185
- Hu, J.Y., Slijkhuis, S., de Jong, T., Jiang, B.W.: A systematic study of IRAS selected proto-planetary nebula candidates. I. Selection of the sample and observations of the southern objects 276, 330 (100, 413)
- Hu, Y.D., see Zhou, Y.Y., et al. 267, 11
- Hu Hui, see Xu Jiayan, et al. 271, 360
- Hua, C.T., see Courtès, G., et al. 268, 419
- Hua, C.T., Grundseth, B., Maucherat, A.-J.: Faint halos around compact planetary nebulae 279, 676 (101, 541)
- Huang, L., see Catala, C., et al. 275, 245
- Huang, R.Q., Yu, K.N.: The effects of heating and accretion on the evolution of binary systems 267, 392
- Huang, Z.H., see Fan, J.H., et al. 275, 688 (100, 103)
- Hubbard, W.B., Sicardy, B., Miles, R., Hollis, A.J., Forrest, R.W., Nicolson, I.K.M., Appleby, G., Beisker, W., Bittner, C., Bode, H.-J., Bruns, M., Denzau, H., Nezel, M., Riedel, E., Struckmann, H., Arlot, J.E., Roques, F., Sèvre, F., Thuillot, W., Hoffmann, M., Geyer, E.H., Buil, C., Colas, F., Lecacheux, J., Klotz, A., Thouvenot, E., Vidal, J.L., Carreira, E., Rossi, F., Blanco, C., Cristaldi, S.,

- Nevo, Y., Reitsema, H.J., Brosch, N., Cernis, K., Zdanavicius, K., Wasserman, L.H., Hunten, D.M., Gautier, D., Lellouch, E., Yelle, R.V., Rizk, F., Flasar, F.M., Porco, C.C., Toubanc, D., Corugedo, G.: The occultation of 28 Sgr by Titan **269**, 541
- Hube, D.P., see Breger, M., et al. **271**, 482
- Huber, M.C.E., see Bizzarri, A., et al. **273**, 707
- Hubert, A.-M., see Koubský, P., et al. **277**, 521
- Hubert, H., see Catala, C., et al. **275**, 245
- Hubert, H., see Koubský, P., et al. **277**, 521
- Hubert-Delplace, A.M., see Catala, C., et al. **275**, 245
- Huddleston, D.E., see Johnstone, A.D., et al. **273**, L1
- Hudec, R.: Grain depth distribution and the reality of optical transient candidates near the GRB 790325 b position **270**, 151
- Hudec, R.: Optical counterparts to gamma-ray burst sources. First decade **272**, 727 (**97**, 49)
- Hünsch, M., see Griffin, R.E.M., et al. **274**, 225
- Hünsch, M., Reimers, D.: Circumstellar Mg II absorption in UV spectra of hot companions of red giants and the meaning of the Mg II asymmetry dividing line **276**, 161
- Huestamendia, G., del Rio, G., Merrilliod, J.-C.: *UBV* photometry of open clusters in the Cassiopeia region. II. Photoelectric observations of NGC 654 **275**, 687 (**100**, 25)
- Hüttemeister, S., see Henkel, C., et al. **268**, L17
- Hüttemeister, S., see Wilson, T.L., et al. **268**, 249
- Hüttemeister, S., see Dahlem, M., et al. **270**, 29
- Hüttemeister, S., see Wilson, T.L., et al. **276**, L29
- Hüttemeister, S., Wilson, T.L., Henkel, C., Mauersberger, R.: A multilevel study of ammonia in star forming regions. V. The Sgr B2 region **276**, 445
- Hüttemeister, S., Wilson, T.L., Bania, T.M., Martín-Pintado, J.: Kinetic temperatures in Galactic Center molecular clouds **280**, 255
- Huggins, P.J., see Bachiller, R., et al. **267**, 177
- Huguenin, D., see Courtès, G., et al. **268**, 419
- Huguenin, D., see Tovmassian, H.M., et al. **277**, 362 (**100**, 501)
- Hui Li, see Liang, E.P. **273**, L53
- Hummer, D.G., Berrington, K.A., Eissner, W., Pradhan, A.K., Saphar, S., Tully, J.A.: Atomic data from the IRON Project. I. Goals and methods **279**, 298
- Hunt, L.K., see Salvati, M., et al. **274**, 174
- Hunten, D.M., see Hubbard, W.B., et al. **269**, 541
- Hunter, S.D., Bertsch, D.L., Dingus, B.L., Fichtel, C.E., Hartman, R.C., Kanbach, G., Kniffen, D.A., Kwok, P.W., Lin, Y.C., Mattox, J.R., Mayer-Hasselwander, H.A., Michelson, P.F., von Montigny, C., Nolan, P.L., Schneid, E., Sreekumar, P., Thompson, D.J.: Detection of high energy gamma rays from BL Lac PKS 0235+164 by the EGRET telescope on the Compton observatory **272**, 59
- Hunter, S.D., see Fichtel, C.E., et al. **272**, 725 (**97**, 13)
- Hunter, S.D., see von Montigny, C., et al. **272**, 730 (**97**, 101)
- Hunter, S.D., see Kanbach, G., et al. **272**, 744 (**97**, 349)
- Huovelin, J., see Catala, C., et al. **275**, 245
- Hurley, K., Sommer, M., Boer, M., Niel, M., Laros, J., Fenimore, E.E., Klebesadel, R., Fishman, G.J., Kouveliotou, C., Meegan, C., Paciesas, W.S., Wilson, R., Cline, T.: Ulysses precise localizations of gamma-ray bursts **272**, 726 (**97**, 39)
- Hurley, K., see Durouchoux, P., et al. **272**, 735 (**97**, 185)
- Hurley, K., see Smith, D.M., et al. **272**, 736 (**97**, 199)
- Hurley, K., see Boër, M., et al. **277**, 503
- Hurley, K.C., see Feffer, P.T., et al. **272**, 726 (**97**, 31)
- Hutchings, J.B., see Vermeulen, R.C., et al. **270**, 204
- Hutchinson, M.G., see Evans, A., et al. **267**, 161
- Hutsemékers, D., see Magain, P., et al. **272**, 383
- Hutsemékers, D.: Selective gravitational microlensing and line profile variations in the BAL quasar H 1413+117 **280**, 435
- Hutton, R.G., Méndez, R.H.: The central stars of He 2-131 and He 2-138: photometric variations **267**, L8
- İbanoglu, C., see Paparo, M., et al. **268**, 123
- İbanoglu, C., Evren, S., Akan, M.C., Tunca, Z., Keskin, V.: Photometry of ER Vulpeculae: photometric analysis with the WINK-10 code **269**, 310
- Idiart, T.E.P., see de Freitas Pacheco, J.A., et al. **271**, 429
- Iess, L., see Bertotti, B., et al. **269**, 608
- Ignjatović, L.M., see Mihajlov, A.A., et al. **276**, 187
- Ilovaisky, S.A., see Chevalier, C. **269**, 301
- Ilovaisky, S.A., Aurière, M., Koch-Miramond, L., Chevalier, C., Cordoni, J.-P., Crowe, R.A.: The 17.1-h optical and X-ray orbital period of AC 211/X 2127 + 119 in M 15 **270**, 139
- Inarta, S., see Giovannelli, F., et al. **272**, 747 (**97**, 395)
- Inklaar, F., see Sterken, C., et al. **280**, 344 (**102**, 79)
- Inoue, M., see Alberdi, A., et al. **271**, 93
- Inoue, M., see Lerner, M.S., et al. **280**, 117
- in't Zand, J.J.M., see Pan, H.C., et al. **272**, 740 (**97**, 273)
- Ip, W.-H., see Altwegg, K., et al. **279**, 260
- Irbah, A., Borgnino, J., Laclaire, F., Merlin, G.: Isoplanatism and high spatial resolution solar imaging **276**, 663
- Irvine, W.M., see Minh, Y.C., et al. **267**, 229
- Irwin, M.J., see Demers, S., et al. **275**, 355 (**99**, 437)
- Irwin, M.J., see Demers, S., et al. **275**, 355 (**99**, 461)
- Irwin, M.J., see Rolleston, W.R.J., et al. **277**, 10
- Isern, J., see Bravo, E., et al. **269**, 187
- Isern, J., see José, J., et al. **269**, 291
- Isern, J., see Bravo, E., et al. **270**, 288
- Isern, J., see Aparicio, J.M. **272**, 446
- Isern, J., see Abia, C., et al. **272**, 455
- Isern, J., see Abia, C., et al. **275**, 96
- Isern, J., see Boffin, H.M.J., et al. **280**, 347 (**102**, 361)
- Ishikawa, S., see Minh, Y.C., et al. **267**, 229
- Israël, F.P., see Rubio, M., et al. **271**, 1
- Israel, F.P., Johansson, L.E.B., Lequeux, J., Booth, R.S., Nyman, L.-Å., Crane, P., Rubio, M., de Graauw, T., Kutner, M.L., Gredel, R., Boulanger, F., Garay, G., Westerlund, B.E.: Results of the ESO-SEST Key Programme on CO in the Magellanic Clouds. I. A survey of CO in the LMC and the SMC **276**, 25
- Israel, F.P., see Oly, C. **276**, 327 (**100**, 263)
- Israel, G.L., see Parmar, A.N., et al. **275**, 227
- Itkina, M.A., Levin, B.N., Tsybko, Y.G.: On the radio wave group delay in the solar corona for the case of decimeter type III bursts **279**, 235
- Itoh, M., see Kumagai, S., et al. **273**, 153
- Ivezić, Ž., see Schneider, H., et al. **277**, 480
- Ivison, R.J., Munari, U., Marang, F.: On the symbiotic star V 919 Sagittarii **277**, 510
- Iwasaki, K., see Akabane, T., et al. **277**, 302
- Jackson, N., see Wanders, I., et al. **269**, 39
- Jackson, N., Sparks, W.B., Miley, G.K., Macchetto, F.: The radio and optical structure of 3C 66B **269**, 128
- Jackson, N., Tadhunter, C.N.: The polarized spectrum of Cygnus A **272**, 105
- Jackson, N., Browne, I.W.A., Warwick, R.S.: The soft X-ray spectra of quasars and X-ray beaming models **274**, 79
- Jackson, N., Browne, I.W.A., Alberdi, A., Marcaide, J.M.: The subarcsecond structure of 4C 39.25 **280**, 128
- Jacoby, G.H., see Méndez, R.H., et al. **275**, 534
- Jacq, T., Walmsley, C.M., Mauersberger, R., Anderson, T., Herbst, E., De Lucia, F.C.: Detection of interstellar CH₂DOH **271**, 276
- Jacquemot, S., see Stehlé, C. **271**, 348
- Jämsä, S., Peltoniemi, J.L., Lumme, K.: Thermal emission from a

- rough surface: ray optics approach 271, 319
- Jain, S.K., see Bhatt, H.C. 276, 507
- Jakeš, P., see Padevč, V. 274, 944
- Jakobsen, P., see Barbieri, C., et al. 273, 1
- Jakobsen, P., see Picard, A. 276, 331
- Jameson, R., see Leinert, C., et al. 278, 129
- Jameson, R.F., see Hambly, N.C., et al. 277, 364 (100, 607)
- Janardhan, P., Alurkar, S.K.: Angular source size measurements and interstellar scattering at 103 MHz using interplanetary scintillation 269, 119
- Janes, K.A., see Friel, E.D. 267, 75
- Janka, H.-T., Zwerger, T., Mönchmeyer, R.: Does artificial viscosity destroy prompt type-II supernova explosions? 268, 360
- Jankov, S., see Catala, C., et al. 275, 245
- Jansen, D., see Wieringa, M.H., et al. 268, 215
- Jansen, D.J., see van Dishoeck, E.F., et al. 279, 541
- Jansen, F., see Halm, I., et al. 269, 601
- Jansen, F.A., see Kaastra, J.S. 272, 754 (97, 873)
- Janssens, A.M., see Van Langevelde, H.J., et al. 279, 680 (101, 109)
- Jaschek, C., see Jaschek, M., et al. 272, 752 (97, 781)
- Jaschek, C., Jaschek, M.: A catalogue of radii of Be star line emitting regions 272, 753 (97, 807)
- Jaschek, C., Valbousquet, A.: The solar motion. III. From space velocities 275, 472
- Jaschek, M., Jaschek, C., Andriant, Y.: The behavior of the OI line 7772 in Be and related stars 272, 752 (97, 781)
- Jaschek, M., see Jaschek, C. 272, 753 (97, 807)
- Jatenco-Pereira, V., see dos Santos, L.C., et al. 270, 345
- Jatenco-Pereira, V., see Gonçalves, D.R., et al. 279, 351
- Jauncey, D.L., see Junkes, N., et al. 269, 29
- Jauncey, D.L., see Junkes, N., et al. 274, 1009
- Javahery, G., see Petrie, S., et al. 271, 662
- Jedrzejewski, R., see Barbieri, C., et al. 273, 1
- Jefferies, J.T., see Harrison, R.A., et al. 274, L9
- Jeffery, C.S., Heber, U.: Spectral analysis of DY Centauri, a hot R Coronae Borealis star with an unusually high hydrogen content 270, 167
- Jeffery, C.S.: Spectral analysis of LSE 78: an extreme helium star similar to BD - 9° 4395 and DY Centauri 279, 188
- Jenniskens, P., Baratta, G.A., Kouchi, A., de Groot, M.S., Greenberg, J.M., Strazzulla, G.: Carbon dust formation on interstellar grains 273, 583
- Jenniskens, P., Greenberg, J.M.: Environment dependence of interstellar extinction curves 274, 439
- Jenniskens, P., Désert, F.-X.: Complex structure in two diffuse interstellar bands 274, 465
- Jenniskens, P.: Optical constants of organic refractory residue 274, 653
- Jenniskens, P., Désert, F.-X.: Tracing the roots of interstellar mid-infrared emission 275, 549
- Jensen, C.M., see Johnson, W.N., et al. 272, 725 (97, 21)
- Jerjen, H., Tammann, G.A.: The Local Group motion towards Virgo and the microwave background 276, 1
- Jerzykiewicz, M.: Three known and twenty-two new variable stars of early spectral type 272, 748 (97, 421)
- Jessner, A., see Gil, J.A., et al. 271, L17
- Jessner, A., see Wielebinski, R., et al. 272, L13
- Jetsu, L.: A decade of photometry of LQ Hydrae 276, 345
- Jetsu, L., Pelt, J., Tuominen, I.: Spot and flare activity of FK Comae Berenices: long-term photometry 278, 449
- Jewell, P., see Lerner, M.S., et al. 280, 117
- Jiang, B.W., see Hu, J.Y., et al. 276, 330 (100, 413)
- Jiang, S., see Catala, C., et al. 275, 245
- Jiang Shi-yang, see Breger, M., et al. 271, 482
- Jirkovsky, L., see Muriel, A., et al. 279, 341
- Joarder, P.S., Roberts, B.: The modes of oscillation of a Menzel prominence 273, 642
- Joarder, P.S., Roberts, B.: The modes of oscillation of a prominence. III. The slab in a skewed magnetic field 277, 225
- Jockers, K., Kiselev, N.N., Boehnhardt, H., Thomas, N.: CN, C₂, and dust observed in comet P/Grigg-Skjellerup from the ground eight hours after the Giotto encounter 268, L9
- Jockers, K., see Johnstone, A.D., et al. 273, L1
- Johannesson, A.: The fine scale dynamics of a sunspot penumbra 273, 633
- Johansson, L.E.B., see Nyman, L.-Å., et al. 269, 377
- Johansson, L.E.B., see Rubio, M., et al. 271, 1
- Johansson, L.E.B., see Garay, G., et al. 274, 743
- Johansson, L.E.B., see Gahm, G.F., et al. 274, 415
- Johansson, L.E.B., see Israel, F.P., et al. 276, 25
- Johansson, S., see Nave, G. 274, 961
- Johansson, S., see Nave, G. 280, 346 (102, 269)
- Johnson, H.R., see Jorissen, A., et al. 271, 463
- Johnson, W.N., Kurfess, J.D., Purcell, W.R., Matz, S.M., Ulmer, M.P., Strickman, M.S., Murphy, R.J., Grabelsky, D.A., Kinzer, R.L., Share, G.H., Cameron, R.A., Kroeger, R.A., Maisack, M., Jung, G.V., Jensen, C.M., Clayton, D.D., Leising, M.D., Grove, J.E., Dyer, C.S.: Initial results from OSSE on the Compton Observatory 272, 725 (97, 21)
- Johnston, H.M., Kulkarni, S.R.: A high-frequency radio observation of NGC 6624 280, 523
- Johnston, K.J., see Vermeulen, R.C., et al. 270, 189
- Johnstone, A.D., Coates, A.J., Huddleston, D.E., Jockers, K., Wilken, B., Borg, H., Gurgiolo, C., Winningham, J.D., Amata, E.: Observations of the solar wind and cometary ions during the encounter between Giotto and comet P/Grigg-Skjellerup 273, L1
- Jönch-Sørensen, H.: $v\beta$ - β CCD field star photometry with the Nordic Optical Telescope 267, 54
- Jönch-Sørensen, H.: $uvby\beta$ photometry of E-region stars 280, 350 (102, 637)
- Jones, B.J.T., see Martínez, V.J., et al. 280, 5
- Jones, D.H.P., see Beurle, K., et al. 269, 564
- Jones, K.N., see Doel, R.C., et al. 280, 592
- Jorda, L., see Heydari-Malayeri, M., et al. 278, 11
- Jordan, S., see Heber, U., et al. 267, L31
- Jordan, S., Heber, U., Engels, D., Koester, D.: HS 0209+0832: a DAB white dwarf with a temperature fitting into the DB gap 273, L27
- Jordan, S., see Napiwotzki, R., et al. 278, 478
- Jordan, S., see Schwöpe, A.D., et al. 278, 487
- Jordi, C., see Trullols, E. 276, 328 (100, 311)
- Jordi, C., see Comerón, F., et al. 279, 679 (101, 37)
- Jordi, C., see Paredes, J.M., et al. 280, 347 (102, 381)
- Jørgensen, H.E., see Helt, B.E., et al. 270, 297
- Jørgensen, H.E., see Nørgaard-Nielsen, H.U., et al. 279, 61
- Jørgensen, U.G., Thejll, P.: A new method for analyzing horizontal branch morphology and mass loss 272, 255
- Jorissen, A., Frayer, D.T., Johnson, H.R., Mayor, M., Smith, V.V.: S stars: infrared colors, technetium, and binarity 271, 463
- Jorissen, A., see Sterken, C., et al. 280, 344 (102, 79)
- José, J., Hernanz, M., Isern, J.: Hydrogen and helium shell flashes on massive accreting white dwarfs 269, 291
- Joseph, C.L.: Additional constraints on the Spitzer interstellar depletion model 275, 597
- Jourdain, E., see Cordier, B., et al. 272, 277
- Jourdain, E., see Mandrou, P., et al. 272, 724 (97, 1)

- Jourdain, E., see Bassani, L., et al. 272, 729 (97, 89)
 Jourdain, E., see Grebenev, S., et al. 272, 740 (97, 281)
 Jourdain, E., see Goldwurm, A., et al. 272, 741 (97, 293)
 Jourdain, E., see Gilfanov, M., et al. 272, 741 (97, 303)
 Jourdain, E., see Laurent, P., et al. 278, 444
 Joutel, F., see Laskar, J., et al. 270, 522
 Juan, J., Bachiller, R.F., Kömpe, C., Martín-Pintado, J.: High density structure of the L 1455 dark cloud 270, 432
 Juchiewicz, J., see Olive, J.-F., et al. 272, 743 (97, 325)
 Judge, D.L., see Fahr, H.J., et al. 268, 792
 Judge, D.L., see Blum, P., et al. 272, 549
 Juettner, A., see Sterken, C., et al. 280, 344 (102, 79)
 Jung, G.V., see Johnson, W.N., et al. 272, 725 (97, 21)
 Jungwiert, B., see Palouš, J., et al. 274, 189
 Junkes, N., Haynes, R.F., Harnett, J.I., Jauncey, D.L.: Radio polarization surveys of Centaurus A (NGC 5128). I. The complete radio source at λ 6.3 cm 269, 29
 Junkes, N., Haynes, R.F., Harnett, J.I., Jauncey, D.L.: Radio polarization surveys of Centaurus A (NGC 5128). I. The complete radio source at λ 6.3 cm 274, 1009
 Junkes, N., see Dickel, J.R., et al. 275, 265
 Kaastra, J.S., Mewe, R.: X-ray emission from thin plasmas. I. Multiple Auger ionization and fluorescence processes for Be to Zn 272, 748 (97, 443)
 Kaastra, J.S., Jansen, F.A.: A spectral code for X-ray spectra of supernova remnants 272, 754 (97, 873)
 Käufel, H.U.: Infrared observations of atomic hydrogen lines in ζ Pup-pis 272, 452
 Kahabka, P., see Bisnovatyi-Kogan, G.S. 267, L43
 Kahabka, P., see Boër, M., et al. 272, 728 (97, 69)
 Kahabka, P., see Schmitt, J.H.M.M., et al. 277, 114
 Kahl Kristensen, L., Gammelgaard, P.: Variable phase factors during the rotation of asteroid 51 Nemausa 272, 345
 Kaifu, N., see Minh, Y.C., et al. 267, 229
 Kaisig, M., Rüdiger, G., Yorke, H.W.: The alpha-effect due to supernova explosions 274, 757
 Kalberla, P.M.W., see Roberts, D.A., et al. 274, 427
 Kaler, J.B., Stanghellini, L., Shaw, R.A.: NGC 2371: a high excitation planetary nebula with an O VI nucleus 279, 529
 Kalinkin, L.F., see Leikov, N.G., et al. 272, 744 (97, 345)
 Kalinkov, M., Kuneva, I., Tsvetanov, Z., Strigachev, A.: Photometric properties of some AGNs 273, 352 (98, 165)
 Kalkofen, W., see Bünte, M., et al. 273, 287
 Kallrath, J., see Dvorak, R., et al. 274, 627
 Kálmán, B., see Bumba, V., et al. 276, 193
 Kambe, E., Ando, H., Hirata, R.: Short-term line-profile variations and episodic mass loss in the Be star ζ Ophiuchi 273, 435
 Kamperman, T.M., see Barbieri, C., et al. 273, 1
 Kamphuis, J., Sancisi, R.: Widespread high velocity gas in the spiral galaxy NGC 6946 273, L31
 Kampmann, H., Rohlfs, K., Kreitschmann, J.: Elliptical streamlines in the inner Galaxy and their large-scale organization 276, 339
 Kanbach, G., see Hunter, S.D., et al. 272, 59
 Kanbach, G., see Fichtel, C.E., et al. 272, 725 (97, 13)
 Kanbach, G., see de Montigny, C., et al. 272, 730 (97, 101)
 Kanbach, G., Bertsch, D.L., Fichtel, C.E., Hartman, R.C., Hunter, S.D., Kniffen, D.A., Kwok, P.W., Lin, Y.C., Mattox, J.R., Mayer-Hasselwander, H.A., Michelson, P.F., von Montigny, C., Nolan, P.L., Pinkau, K., Rothermel, H., Schneid, E., Sommer, M., Sreekumar, P., Thompson, D.J.: Detection of a long-duration solar gamma-ray flare on June 11, 1991 with EGRET on COMPTON-GRO 272, 744 (97, 349)
 Kanbach, G., see Reich, W., et al. 273, 65
 Kandrup, H.E., Mahon, M.E., Smith Jr., H.: Energy and phase space mixing for self-gravitating systems of stars 271, 440
 Kane, S.R., see Feffer, P.T., et al. 272, 726 (97, 31)
 Kaniovsky, A.S., see Kunz, M., et al. 268, 116
 Kaniovsky, A.S., see Sunyaev, R.A., et al. 280, L1
 Kaper, L., Hammerschlag-Hensberge, G., van Loon J.T.: Observations of stellar winds in high-mass X-ray binaries: evidence for a non-monotonic velocity structure 279, 485
 Kaplan, J., see Baillon, P., et al. 277, 1
 Karachentsev, I.D., see Tikhonov, N.A. 275, 39
 Karachentsev, I.D., Tikhonov, N.A.: Photometric distances to the nearby galaxies IC 10, IC 342, and UGCA 86, visible through the Milky Way 276, 327 (100, 227)
 Karakula, S., see Dokuchaev, V.I., et al. 272, 731 (97, 109)
 Karakula, S., see Moskalenko, I.V., et al. 272, 739 (97, 269)
 Karas, V., see Abramowicz, M.A., et al. 272, 400
 Karlický, M., Hénoux, J.C.: Electron acceleration due to beam flux increase in a converging magnetic field 278, 627
 Karttunen, H., see Valtaoja, L., et al. 273, 393
 Karttunen, H., see Valtaoja, L., et al. 278, 371
 Karwowski, J., see Martin, I., et al. 277, 363 (100, 595)
 Kastner, J.H., Forveille, T., Zuckerman, B., Omont, A.: Probing the AGB tip: luminous carbon stars in the galactic plane 275, 163
 Katgert, P., see Wieringa, M.H., et al. 268, 215
 Kaufer, A., see Stahl, O., et al. 274, L29
 Kaufer, A., see Stahl, O., et al. 274, 1016 (99, 165)
 Kaul, C.L., Kaul, R.K., Bhat, C.L.: A model for TeV gamma-ray emission from AM Herculis 272, 501
 Kaul, R.K., see Kaul, C.L., et al. 272, 501
 Kayser, R., see Witt, H.J., et al. 268, 501
 Kayser, R., see Schramm, T., et al. 268, 350
 Kayser, R., Schramm, T.: New caustic singularities in multiple lens plane gravitational lensing are not stable 278, L13
 Kayser, R., see Wisotzki, L., et al. 278, L15
 Kayser, R., see Schramm, K.-J., et al. 278, 391
 Kecklová, J., see Cepelucha, Z., et al. 279, 615
 Keel, W.C., see Schulz, H., et al. 277, 416
 Keenan, F.P., see Dufton, P.L., et al. 269, 201
 Keenan, F.P., see Conlon, E.S., et al. 272, 243
 Keenan, F.P., see Dufton, P.L., et al. 278, 68
 Kegel, W.H., Piehler, G., Albrecht, M.A.: The formation of interstellar molecular lines in a turbulent velocity field with finite correlation length. II. The case $\sigma_{\nu} \gg v_{\text{therm}}$ 270, 407
 Kemp, S.N., see Bates, B., et al. 272, 755 (97, 937)
 Kemp, S.N., Meaburn, J.: Warped disks, shells and other features of galaxies in the IC 4296 group, as revealed by Schmidt plate co-addition 274, 19
 Kemp, S.N., Bates, B., Lyons, M.A.: High resolution Na D and K I interstellar profiles towards stars in the globular cluster M4 278, 542
 Kenderdine, S., see Robson, M., et al. 277, 314
 Kendziorra, E., see Kunz, M., et al. 268, 116
 Kendziorra, E., see Sunyaev, R.A., et al. 280, L1
 Kerp, J., Herbstmeier, U., Mebold, U.: A dense H I filament in the local X-ray emitting plasma: ROSAT observation of LVC 88+36-2 268, L21
 Kerrick, A.D., see Akerlof, C.W., et al. 274, L17
 Kerschbaum, F., see Guglielmo, F., et al. 274, 1015 (99, 31)
 Keskin, V., see İbanoğlu, C., et al. 269, 310
 Kester, D.J.M., see Prusti, T., et al. 279, 163
 Khalessch, B., see Hill, G., et al. 279, 677 (101, 579)
 Khalessch, B., see Hill, G., et al. 279, 677 (101, 579)
 Khalikov, S., see Loudagh, S., et al. 275, L25
 Khalikov, S., see Pallé, P.L., et al. 280, 324

- Khanna, R., see Wagner, S.J., et al. 271, 344
- Khavenson, N., see Cordier, B., et al. 272, 277
- Khavenson, N., see Mandrou, P., et al. 272, 724 (97, 1)
- Khavenson, N., see Lestrade, J.P., et al. 272, 728 (97, 79)
- Khavenson, N., see Sunyaev, R., et al. 272, 729 (97, 85)
- Khavenson, N., see Bassani, L., et al. 272, 729 (97, 89)
- Khavenson, N., see Churazov, E., et al. 272, 734 (97, 173)
- Khavenson, N., see Cordier, B., et al. 272, 734 (97, 177)
- Khavenson, N., see Lei, F., et al. 272, 735 (97, 189)
- Khavenson, N., see Laurent, P., et al. 272, 737 (97, 225)
- Khavenson, N., see Barret, D., et al. 272, 738 (97, 241)
- Khavenson, N., see Grebenev, S., et al. 272, 740 (97, 281)
- Khavenson, N., see Goldwurm, A., et al. 272, 741 (97, 293)
- Khavenson, N., see Denis, M., et al. 272, 743 (97, 333)
- Khavenson, N., see Laurent, P., et al. 278, 444
- Khokhlov, A., see Höflich, P., et al. 268, 570
- Khokhlov, A., Müller, E., Höflich, P.: Light curves of Type Ia supernova models with different explosion mechanisms 270, 223
- Khokhlov, A., see Höflich, P., et al. 272, 737 (97, 221)
- Kristiansen, G.B., see Ptuskin, V.S., et al. 268, 726
- Kichatinov, L.L., see Rüdiger, G. 269, 581
- Kichatinov, L.L., Pipin, V.V.: Mean-field buoyancy 274, 647
- Kichatinov, L.L., Rüdiger, G.: Δ -effect and differential rotation in stellar convection zones 276, 96
- Kichatinov, L.L., see Küker, M., et al. 279, L1
- Kidger, M., see Salvati, M., et al. 274, 174
- Kidger, M.R., Martínez-Roger, C.: Near-infrared photometry and spectrophotometry of two unusual novae 267, 111
- Kijak, J., see Gil, J.A., et al. 272, 207
- Kijak, J., see Gil, J.A., et al. 272, 268
- Kijak, J., see Gil, J.A. 273, 563
- Kimeswenger, S., Hoffmann, B., Schlosser, W., Schmidt-Kaler, T.: Photographic surface photometry of the Milky Way. VII. High-resolution B surface photometry of the southern Milky Way 272, 749 (97, 517)
- King, A.R., see Hameury, J.-M., et al. 277, 81
- King, D.L., see Vladilo G., et al. 280, L11
- King, I.R., see Barbieri, C., et al. 273, 1
- King, S., see Helt, B.E., et al. 270, 297
- Kinkel, U., see Sterken, C., et al. 280, 344 (102, 79)
- Kinzer, R.L., see Johnson, W.N., et al. 272, 725 (97, 21)
- Kippen, R.M., see Connors, A., et al. 272, 728 (97, 75)
- Kipper, M., see Kipper, T. 276, 389
- Kipper, T., Kipper, M.: The spectrum of FG Sge in 1992 276, 389
- Kirshner, R.P., see de Boer, K.S., et al. 280, L15
- Kiselev, N.N., see Jockers, K., et al. 268, L9
- Kiselman, D.: The 777 nm oxygen triplet in the Sun and solar-type stars, and its use for abundance analysis 275, 269
- Klaas, U., Elsässer, H.: Identification and morphology of optically faint extragalactic IRAS sources 274, 1015 (99, 71)
- Klaas, U., Elsässer, H.: A sample of optically faint infrared luminous galaxies 280, 76
- Klaflf, R., see Blanchard, A., et al. 267, 1
- Klapp, J., Sigalotti, L.D.G., de Felice, F.: Formation of multiple protostellar systems 273, 175
- Klare, G., see Szeifert, T., et al. 280, 508
- Klebesadel, R., see Hurley, K., et al. 272, 726 (97, 39)
- Kleidis, K., Vavrogis, H., Papadopoulos, D.: Interaction of charged particles with gravitational waves of various polarizations and directions of propagation 275, 309
- Klein, U., Haynes, R.F., Wielebinski, R., Meinert, D.: A radio continuum study of the Magellanic Clouds. III. The magnetic field in the LMC 271, 402
- Klein, U., see Braine, J., et al. 272, 754 (97, 887)
- Klein, U., see Dickel, J.R., et al. 275, 265
- Klein, U., see Mack, K.-H., et al. 280, 63
- Klepach, E.G., see Ptuskin, V.S., et al. 268, 726
- Kley, W., see Tschäpe, R. 273, 169
- Kley, W., see Shankar, A., et al. 274, 955
- Klioner, S.A.: On the hierarchy of relativistic kinematically nonrotating reference systems 279, 273
- Klotz, A., see Hubbard, W.B., et al. 269, 541
- Klotz, A., see Prugniel, P., et al. 273, 353 (98, 229)
- Klumper, A., see Connors, A., et al. 272, 728 (97, 75)
- Klusch, M., Napiwotzki, R.: HNS: a hybrid neural system and its use for the classification of stars 276, 309
- Kluźniak, W.: Mechanisms of hard X-ray emission from accreting neutron stars 272, 739 (97, 265)
- Klvaňa, M., see Bumba, V., et al. 276, 193
- Knee, L.B.G., see Fridlund, C.V.M. 268, 245
- Kneer, F., see Amer, M.A. 273, 304
- Kneer, F., von Uexküll, M.: Oscillations of the Sun's chromosphere. VI. K grains, resonances, and gravity waves 274, 584
- Kneer, R., see Stahl, O., et al. 274, 1016 (99, 165)
- Kneib, J.-P., Mellier, Y., Fort, B., Mathez, G.: The distribution of dark matter in distant cluster-lenses: modelling A 370 273, 367
- Kneib, J.-P., see Bonnet, H., et al. 280, L7
- Kniffen, D.A., see Hunter, S.D., et al. 272, 59
- Kniffen, D.A., see Gehrels, N., et al. 272, 724 (97, 5)
- Kniffen, D.A., see Fichtel, C.E., et al. 272, 725 (97, 13)
- Kniffen, D.A., see von Montigny, C., et al. 272, 730 (97, 101)
- Kniffen, D.A., see Kanbach, G., et al. 272, 744 (97, 349)
- Knill, O., Dgani, R., Vogel, M.: A new approach to Abel's integral operator and its application to stellar winds 274, 1002
- Knobloch, E., see Dubrulle, B. 274, 667
- Knödseder, J., see Diehl, R., et al. 272, 735 (97, 181)
- Knölker, M., see Stix, M., et al. 272, 340
- Knude, J.: Photoelectric $uvby\beta$ photometry of 230 stars brighter than $m_{ps}=13.0$ in the two $b=+75^\circ$ fields SA 80 and SA 81 273, 353 (98, 213)
- Knude, J.: On the age and chemical discreteness of Strömgren's intermediate population II 275, 463
- Knude, J.: Photoelectric β photometry of 118 stars with $14 \leq V \leq 15$ and $B-V \leq 1$ at the south galactic pole 275, 355 (99, 499)
- Kobayashi, H., see Lerner, M.S., et al. 280, 117
- Koch, R.H., see Scaltriti, F., et al. 280, 347 (102, 343)
- Koch-Miramond, L., see Illovaisky, S.A., et al. 270, 139
- Köhler, T., see Wisotzki, L., et al. 278, L15
- Kömpe, C., see Juan, J., et al. 270, 432
- Koester, D., see Jordan, S., et al. 273, L27
- Koester, D., Reimers, D.: Spectroscopic identification of white dwarfs in galactic clusters. VI. Three new white dwarfs in NGC 3532 275, 479
- Koesterke, L., see Hamann, W.-R., et al. 274, 397
- Kolb, U.: A model for the intrinsic population of cataclysmic variables 271, 149
- Kolb, U., de Kool, M.: The period distribution of cataclysmic binaries evolving without magnetic braking 279, L5
- Kolev, D., Tomov, T.: MWC 560: spectral atlas for the region 3600 Å–4900 Å 275, 687 (100, 1)
- Kolka, I., see Annuk, K., et al. 269, L5
- Kolláth, Z., Szeidl, B.: On the irregular light variation of RU Camelopardalis 277, 62
- Kollatschny, W., see Wanders, I., et al. 269, 39
- Komm, R., see Nesis, A., et al. 279, 599
- Komossa, S., see Schulz, H. 278, 29

- Komžík, R., see Chochol, D., et al. 277, 103
- Kontizas, E., Kontizas, M., Michalitsianos, A.: Indications for common origin and gravitational interaction in three binary LMC clusters 267, 59
- Kontizas, E., see Kontizas, M., et al. 269, 107
- Kontizas, M., see Kontizas, E., et al. 267, 59
- Kontizas, M., Kontizas, E., Michalitsianos, A.G.: Radial distribution of metallicity in the LMC cluster systems 269, 107
- Kopecký, J., see Palouš, J., et al. 274, 189
- Koribalski, B., Dahlem, M., Mebold, U., Brinks, E.: A comprehensive study of the peculiar spiral galaxy NGC 1808. II. VLA H I line observations 268, 14
- Korzavin, A.N., see Alissandrakis, C.E., et al. 270, 509
- Koubský, P., Horn, J., Harmanec, P., Hubert, A.-M., Hubert, H., Floquet, M.: Coming shell phase of the Be star 4 Herculis 277, 521
- Kouchi, A., see Jenniskens, P., et al. 273, 583
- Koutchmy, S., see Lorrain, P. 269, 518
- Koutchmy, S., see Dara, H.C., et al. 277, 648
- Kouveliotou, C., see Fishman, G.J., et al. 272, 725 (97, 17)
- Kouveliotou, C., see Hurley, K., et al. 272, 726 (97, 39)
- Kouveliotou, C., Paciesas, W.S., Fishman, G.J., Meegan, C.A., Wilson, R.B.: Gamma-ray burst color-color diagrams 272, 727 (97, 55)
- Kouveliotou, C., see Boër, M., et al. 277, 503
- Kovács, G., see Buchler, J.R., et al. 280, 157
- Kovacs, J., see Stahl, O., et al. 274, L29
- Kovalenko, I.G., Sokolov, P.A.: The nonlinear stage of evolution of spherically symmetric disturbances in an Einstein-de Sitter universe: explosive and implosive modes 270, 1
- Kovtunen, V., see Cordier, B., et al. 272, 277
- Kovtunen, V., see Sunyaev, R., et al. 272, 729 (97, 85)
- Kovtunen, V., see Churazov, E., et al. 272, 734 (97, 173)
- Kovtunen, V., see Gilfanov, M., et al. 272, 741 (97, 303)
- Kozasa, T., Blum, J., Okamoto, H., Mukai, T.: Optical properties of dust aggregates. II. Angular dependence of scattered light 276, 278
- Kraakman, H., see Hollander, A., et al. 279, 680 (101, 87)
- Kramer, M., see Gil, J.A., et al. 271, L17
- Kramer, M., see Wiebeleski, R., et al. 272, L13
- Krankowsky, D., see Meier, R., et al. 277, 677
- Krautter, J., see Weight, A., et al. 268, 294
- Krautter, J., see Péquignot, D., et al. 271, 219
- Krautter, J., see Alcalá, J.M., et al. 272, 225
- Kreitschmann, J., see Kampmann, H., et al. 276, 339
- Krelowski, J., see Papaj, J., et al. 273, 575
- Kremnev, R., see Cordier, B., et al. 272, 277
- Kremnev, R., see Sunyaev, R., et al. 272, 729 (97, 85)
- Kremnev, R., see Churazov, E., et al. 272, 734 (97, 173)
- Kremnev, R., see Cordier, B., et al. 272, 734 (97, 177)
- Kremnev, R., see Laurent, P., et al. 272, 737 (97, 225)
- Kremnev, R., see Goldwurm, A., et al. 272, 741 (97, 293)
- Kremnev, R., see Gilfanov, M., et al. 272, 741 (97, 303)
- Kresák, Ľ.: Cometary dust trails and meteor storms 279, 646
- Kretschmar, P., see Kunz, M., et al. 268, 116
- Kreysa, E., see Chini, R., et al. 272, L5
- Kreysa, E., see Reipurth, B., et al. 273, 221
- Kreysa, E., see Guélin, M., et al. 279, L37
- Kreysa, E., see Gordon, M.A., et al. 280, 208
- Krichbaum, T.P., see Alberdi, A., et al. 271, 93
- Krichbaum, T.P., see Wagner, S.J., et al. 271, 344
- Krichbaum, T.P., Zensus, J.A., Witzel, A., Mezger, P.G., Standke, K.J., Schalinski, C.J., Alberdi, A., Marcaide, J.M., Zylka, R., Rogers, A.E.E., Booth, R.S., Rönnäng, B.O., Colomer, F., Bartel, N., Shapiro, I.I.: First 43 GHz VLBI detection of the compact source Sgr A* in the Galactic Center 274, L37
- Krichbaum, T.P., Witzel, A., Graham, D.A., Standke, K.J., Schwartz, R., Lochner, O., Schalinski, C.J., Greve, A., Steppe, H., Brunswig, W., Butin, G., Hein, H., Navarro, S., Peñalver, J., Grewing, M., Booth, R.S., Colomer, F., Rönnäng, B.O.: First 43 GHz VLBI-observations with the 30-m radio telescope at Pico Veleta 275, 375
- Krishna Swamy, K.S., Tarafdar, S.P.: Study of the A-X (0,0) band profile of CS in comets 271, 326
- Kroeger, R.A., see Johnson, W.N., et al. 272, 725 (97, 21)
- Kroll, P., Neugebauer, P.: Brightness determination on photographic plates using a CCD line scanner 273, 341
- Krügel, E., see Chini, R., et al. 272, L5
- Krügel, E., see Reipurth, B., et al. 273, 221
- Krügel, E., Tutukov, A.V.: Star formation in galactic nuclei 275, 416
- Krügel, E., see Natta, A., et al. 275, 527
- Krügel, E., see Chini, R. 279, 385
- Krzesiński, J., Wójcik, K.: Multi-task guiding system of the Mt. Suhora Observatory 280, 338
- Kudritzki, R.P., see Sellmaier, F., et al. 273, 533
- Kudritzki, R.P., see Méndez, R.H., et al. 275, 534
- Kudritzki, R.P., see Hillier, D.J., et al. 276, 117
- Kühl, D., see Schramm, K.-J., et al. 278, 391
- Kühr, H., see Fried, J.W., et al. 268, 53
- Kühr, H., see Stickel, M., et al. 272, 749 (97, 483)
- Kühr, H., see Stickel, M., et al. 274, 1011 (98, 393)
- Kühr, H., see Stickel, M. 276, 330 (100, 395)
- Kühr, H., see Stickel, M. 279, 676 (101, 521)
- Küker, M., Rüdiger, G., Kichatinov, L.L.: An $\alpha\Omega$ -model of the solar differential rotation 279, L1
- Kürster, M.: Doppler imaging with a CLEAN-like approach. I. A newly developed algorithm, simulations, and tests 274, 851
- Kuijpers, J., see Volwerk, M., et al. 270, 265
- Kuiper, L., see Schönfelder, V., et al. 272, 725 (97, 27)
- Kuiper, L., see Collmar, W., et al. 272, 728 (97, 71)
- Kuiper, L., see Connors, A., et al. 272, 728 (97, 75)
- Kuiper, L., see Hermesen, W., et al. 272, 730 (97, 97)
- Kuiper, L., see Strong, A.W., et al. 272, 732 (97, 133)
- Kuiper, L., see Diehl, R., et al. 272, 735 (97, 181)
- Kuiper, L., see Lichti, G.G., et al. 272, 736 (97, 215)
- Kuiper, L., see Bennett, K., et al. 272, 742 (97, 317)
- Kuleshova, N., see Mandrou, P., et al. 272, 724 (97, 1)
- Kuleshova, N., see Bassani, L., et al. 272, 729 (97, 89)
- Kuleshova, N., see Cordier, B., et al. 272, 734 (97, 177)
- Kuleshova, N., see Lei, F., et al. 272, 735 (97, 189)
- Kuleshova, N., see Laurent, P., et al. 272, 737 (97, 225)
- Kuleshova, N., see Baret, D., et al. 272, 738 (97, 241)
- Kuleshova, N., see Goldwurm, A., et al. 272, 741 (97, 293)
- Kuleshova, N., see Denis, M., et al. 272, 743 (97, 333)
- Kuleshova, N., see Cordier, B., et al. 275, L1
- Kulikov, G.V., see Ptuskin, V.S., et al. 268, 726
- Kulkarni, S.R., see Johnston, H.M. 280, 523
- Kumagai, S., see Shigeyama, T., et al. 272, 737 (97, 223)
- Kumagai, S., Nomoto, K., Shigeyama, T., Hashimoto, M., Itoh, M.: Detection of ^{57}Co γ -rays from SN 1987A and prospect of X-ray observations of the pulsar with ASUKA 273, 153
- Kumar, S., see Narain, U. 273, 659
- Kun, M., see Ábrahám, P., et al. 268, 230
- Kun, M., Prusti, T.: Star formation in L 1251: distance and members 272, 235
- Kundu, M.R., see Alissandrakis, C.E., et al. 270, 509
- Kuneva, I., see Kalinkov, M., et al. 273, 352 (98, 165)

- Kunz, M., Gruber, D.E., Kendziorra, E., Kretschmar, P., Maisack, M., Mony, B., Stauber, R., Döbereiner, S., Englhauser, J., Pietsch, W., Reppin, C., Trümper, J., Efremov, V.V., Kaniovsky, A.S., Kuznetsov, A., Sunyaev, R.: Spectral and temporal properties of the X-ray pulsar SMC X-1 at hard X-rays **268**, 116
- Kuperus, M., see van Oss, R.F., et al. **270**, 275
- Kurfess, J.D., see Johnson, W.N., et al. **272**, 725 (**97**, 21)
- Kurths, J., see Schwarz, U., et al. **277**, 215
- Kurtz, S., see Felli, M., et al. **279**, 680 (**101**, 127)
- Kurucz, R.L., see Morossi, C., et al. **277**, 173
- Kus, A.J., see Lerner, M.S., et al. **280**, 117
- Kutner, M.L., see Rubio, M., et al. **271**, 1
- Kutner, M.L., see Israel, F.P., et al. **276**, 25
- Kuulkers, E., see Augusteijn, T., et al. **279**, L13
- Kuznetsov, A., see Kunz, M., et al. **268**, 116
- Kuznetsov, A., see Lestrade, J.P., et al. **272**, 728 (**97**, 79)
- Kuznetsov, A., see Trotter, G., et al. **272**, 743 (**97**, 337)
- Kuznetsov, A., see Laurent, P., et al. **278**, 444
- Kuznetsov, V.I., Lazorenko, G.A., Lazorenko, P.F.: Membership study in multidimensional data space with an application to the open cluster NGC 6823 **278**, 43
- Kwok, P.W., see Hunter, S.D., et al. **272**, 59
- Kwok, P.W., see Fichtel, C.E., et al. **272**, 725 (**97**, 13)
- Kwok, P.W., see von Montigny, C., et al. **272**, 730 (**97**, 101)
- Kwok, P.W., see Kanbach, G., et al. **272**, 744 (**97**, 349)
- Kylafis, N.D., Xilouris, E.M.: Low-mass X-ray binary models for the supersoft X-ray sources CAL 83, CAL 87 and RX J0527.8-6954 in the Large Magellanic Cloud **278**, L43
- La Franca, F., see Cristiani, S., et al. **268**, 86
- La Padula, C., see Ubertini, P., et al. **272**, 730 (**97**, 105)
- La Padula, C., see Bazzano, A., et al. **272**, 734 (**97**, 169)
- La Padula, C., see Giovannelli, F., et al. **272**, 747 (**97**, 395)
- Labat, J., see Purić, J., et al. **280**, 349 (**102**, 607)
- Labay, J., see Bravo, E., et al. **269**, 187
- Labeyrie, A.: Lensing effects of gravitational radiation near celestial sources **268**, 823
- Lachière-Rey, M., see Gerbal, D., et al. **273**, L9
- Lachière-Rey, M., see Rauzy, S., et al. **273**, 357
- Laclare, F., see Irbah, A., et al. **276**, 663
- Lafon, J.-P.J., see Bel, N., et al. **270**, 444
- Lagage, P.O., Merlin, P., Remy, S., Sibille, F.: *N*-band observations of comet Austin 1989c1: first images with the C10μ camera **275**, 345
- Lagerkvist, C.-I., see Schober, H.J., et al. **279**, 676 (**101**, 499)
- Lagerkvist, C.-I., see Belskaya, I.N., et al. **279**, 676 (**101**, 507)
- Lagrange, A.M., Corporon, P., Bouvier, J.: High resolution spectroscopic observations of TY Coronae Austrinae **274**, 785
- Lagrange-Henri, A.-M., see Ferlet, R., et al. **267**, 137
- Lagrange-Henri, A.-M., see Deleuil, M., et al. **267**, 187
- Lagrange-Henri, A.-M., see Lecavelier des Etangs, A., et al. **274**, 877
- Laird, D., see Aspin, C., et al. **278**, 255
- Lallement, R., Bertin, P., Chassefière, E., Scott, N.: Correction of spectra for telluric absorption lines with the help of a molecular data bank and high resolution forward modelling: H₂O lines around the sodium doublet at 589.5 nm **271**, 734
- Lallement, R., see Bertin, P., et al. **278**, 549
- Lamb, R.C., see Akerlof, C.W., et al. **274**, L17
- Lambert, D.L., see Edvardsson, B., et al. **275**, 101
- Lambert, D.L., see Rao, N.K., et al. **280**, 201
- Lambert, D.L., see Edvardsson, B., et al. **280**, 349 (**102**, 603)
- Lamers, H.J.G.L.M., see Hoekzema, N.M., et al. **274**, 1012 (**98**, 505)
- Lamers, H.J.G.L.M., see de Koter, A., et al. **277**, 561
- Lamontagne, R., see Demers, S., et al. **275**, 355 (**99**, 437)
- Lamontagne, R., see Demers, S., et al. **275**, 355 (**99**, 461)
- Landecker, T.L., Higgs, L.A., Wendker, H.J.: G 76.9+1.0, a supernova remnant with unusual properties **276**, 522
- Landi Degl'Innocenti, E., see Leroy, J.L., et al. **270**, 335
- Landi Degl'Innocenti, E., see Landolfi, M., et al. **272**, 285
- Landi Degl'Innocenti, E., see Casini, R. **276**, 289
- Landi Degl'Innocenti, M., see Landolfi, M., et al. **272**, 285
- Landini, M., Monsignori Fossi, B.C.: Extreme ultra violet plasma diagnostic: a test using EUVE calibration data **275**, L17
- Landis, D., see Smith, D.M., et al. **272**, 736 (**97**, 199)
- Landolfi, M., see Leroy, J.L., et al. **270**, 335
- Landolfi, M., Landi Degl'Innocenti, E., Landi Degl'Innocenti, M., Leroy, J.L.: Linear polarimetry of Ap stars. I. A simple canonical model **272**, 285
- Landstreet, J.D., see Bohlender, D.A., et al. **269**, 355
- Landstreet, J.D., see Hill, G.M. **276**, 142
- Langer, N., see Höflich, P., et al. **275**, L29
- Langer, W.D., see Dutrey, A., et al. **270**, 468
- Langer, W.D., see Pagani, L., et al. **274**, L13
- Lanz, T., Artru, M.-C., Didelon, P., Mathys, G.: The Ga II lines in the red spectrum of Ap stars **272**, 465
- Lanz, T., see North, P. **273**, 720
- Lanz, T., Mathys, G.: A search for magnetic fields in Am stars **280**, 486
- Lanza, A., see Abramowicz, M.A., et al. **272**, 400
- Lanza, A.F., Rodonò, M., Zappalà, R.A.: Fourier analysis of spotted star light curves as a tool to detect stellar differential rotation **269**, 351
- Lanzafame, G., see Belvedere, G., et al. **280**, 525
- Lapasset, E., see Clariá, J.J., et al. **274**, 1014 (**99**, 1)
- Lapshov, I., see Brandt, S., et al. **272**, 739 (**97**, 257)
- Lapshov, I., see Castro-Tirado, A.J., et al. **272**, 743 (**97**, 329)
- Lara, L., see Alberdi, A., et al. **277**, L1
- Laros, J., see Hurley, K., et al. **272**, 726 (**97**, 39)
- Larsen, A., see Helt, B.E., et al. **270**, 297
- Lasenby, A.N., see Fuhr, W., et al. **274**, 975
- Lasenby, A.N., see Robson, M., et al. **277**, 314
- Lasenby, J., see Fuhr, W., et al. **274**, 975
- Laskar, J., Joutel, F., Boudin, F.: Orbital, precessional, and insolation quantities for the Earth from -20 Myr to +10 Myr **270**, 522
- Lasota, J.-P., see Hameury, J.-M., et al. **277**, 81
- Lattanzi, M.G., see Bernacca, P.L., et al. **278**, L47
- Launay, F., see Abgrall, H., et al. **279**, 336 (**101**, 273)
- Launay, F., see Abgrall, H., et al. **279**, 337 (**101**, 323)
- Laurent, P., see Cordier, B., et al. **272**, 277
- Laurent, P., Claret, A., Cordier, B., Lebrun, F., Denis, M., Bouchet, L., Lei, F., Barret, D., Churazov, E., Gilfanov, M., Sunyaev, R., Diachkov, A., Khavenson, N., Kremnev, R., Sukhanov, K., Kuleshova, N.: SIGMA observations of bright X-ray binaries **272**, 737 (**97**, 225)
- Laurent, P., see Barret, D., et al. **272**, 738 (**97**, 241)
- Laurent, P., see Grebenev, S., et al. **272**, 740 (**97**, 281)
- Laurent, P., see Goldwurm, A., et al. **272**, 741 (**97**, 293)
- Laurent, P., see Gilfanov, M., et al. **272**, 741 (**97**, 303)
- Laurent, P., Salotti, L., Paul, J., Lebrun, F., Denis, M., Barret, D., Jourdain, E., Roques, J.P., Churazov, E., Gilfanov, M., Sunyaev, R., Diachkov, A., Khavenson, N., Novikov, B., Chulkov, I., Kuznetsov, A.: Photon spectrum and period evolution of GX 1+4 as observed at hard X-ray energies by SIGMA **278**, 444
- Laurikainen, E., see Wanders, I., et al. **269**, 39
- Lauzeral, C., Aurière, M., Coupinot, G.: On the nature of bright Blue

- Stragglers in the centre of M 3 and NGC 6397: analysis of *UBV* observations 274, 214
- Laval, A., see Rosado, M., et al. 272, 541
- Lavigne, J.-M., see Olive, J.-F., et al. 272, 743 (97, 325)
- Lavigne, J.M., see Feffer, P.T., et al. 272, 726 (97, 31)
- Lavigne, J.M., see Leikov, N.G., et al. 272, 744 (97, 345)
- Lawler, J.E., see Bizzarri, A., et al. 273, 707
- Lawrence, A., see Wanders, I., et al. 269, 39
- Lawrence, C.R., see Alberdi, A., et al. 271, 93
- Lawrence, M.A., see Akerlof, C.W., et al. 274, L17
- Lazorenko, G.A., see Kuznetsov, V.I., et al. 278, 43
- Lazorenko, P.F., see Kuznetsov, V.I., et al. 278, 43
- Lazrek, M., see Loudagh, S., et al. 275, L25
- Lazrek, M., see Pallé, P.L., et al. 280, 324
- Lazrek, M., Hill, F.: Temporal window effects and their deconvolution from solar oscillation spectra 280, 704
- Le Bertre, T.: Oxygen-rich late-type star lightcurves in the 1–20 μ m range 272, 751 (97, 729)
- Le Bertre, T., Lequeux, J.: Diffuse absorption bands in the spectra of mass-losing objects 274, 909
- Le Bertre, T., see Guglielmo, F., et al. 274, 1015 (99, 31)
- Le Bertre, T., see Le Sidaner, P. 278, 167
- Le Bertre, T., see Nyman, L.-Å., et al. 280, 551
- Le Borgne, J.F., Vilchez-Gómez, R.: An optical identification of radio sources in the field of the cluster of galaxies Abell 2218 271, 425
- Le Bourlot, J., see Puy, D., et al. 267, 337
- Le Bourlot, J., Pineau des Forêts, G., Roueff, E., Flower, D.R.: Infra-red and submillimetric emission lines from the envelopes of dark clouds 267, 233
- Le Brun, V., Bergeron, J., Boissé, P., Christian, C.: A deep imaging survey of fields around quasars with $z < 1$ Mg II absorption systems 279, 33
- Le Campion, J.F., see Rapaport, M., et al. 271, 645
- Le Coarer, E., see Rosado, M., et al. 272, 541
- le Coarer, E., Rosado, M., Georgelin, Y., Viale, A., Goldes, G.: H α survey of the Small Magellanic Cloud 280, 365
- Le Fèvre, O., see Tresse, L., et al. 277, 53
- Le Floch, B., see Steppe, H., et al. 280, 350 (102, 611)
- Le Guyader, C.: Solution of the *N*-body problem expanded into Taylor series of high orders. Applications to the solar system over large time range 272, 687
- Le Sidaner, P., Le Bertre, T.: Optical and infrared observations of two oxygen-rich Miras: dust shell modelling as a function of phase 278, 167
- Le Squeren, A.M., see David, P., et al. 273, 354 (98, 245)
- Le Squeren, A.M., see David, P., et al. 277, 453
- Leach, S., see Edwards, S.A. 272, 533
- Lebedev, M.G., see Baranov, V.B. 273, 695
- Leblanc, J., see Coron, N., et al. 278, L31
- Leblanc, Y., Gerbault, A., Denis, L., Lecacheux, A.: A catalogue of Jovian decametric radio observations from January 1988 to December 1990 274, 1012 (98, 529)
- Leblanc, Y., Bagenal, F., Dulk, G.A.: The Jovian left hand polarized radiation 276, 603
- Lèbre, A., see Tuchman, Y., et al. 271, 501
- Lèbre, A., see Friel, E., et al. 274, 825
- Lebreton, Y., see Goupil, M.J., et al. 268, 546
- Lebreton, Y., see Berthomieu, G., et al. 268, 775
- Lebreton, Y., see Charbonnel, C. 280, 666
- Lebrun, F., see Mandrou, P., et al. 272, 724 (97, 1)
- Lebrun, F., see Sunyaev, R., et al. 272, 729 (97, 85)
- Lebrun, F., see Bassani, L., et al. 272, 729 (97, 89)
- Lebrun, F., see Churazov, E., et al. 272, 734 (97, 173)
- Lebrun, F., see Lei, F., et al. 272, 735 (97, 189)
- Lebrun, F., see Mirabel, I.F., et al. 272, 735 (97, 193)
- Lebrun, F., see Laurent, P., et al. 272, 737 (97, 225)
- Lebrun, F., see Barret, D., et al. 272, 738 (97, 241)
- Lebrun, F., see Denis, M., et al. 272, 743 (97, 333)
- Lebrun, F., see Laurent, P., et al. 278, 444
- Lecacheux, A., see Barrow, C.H. 271, 335
- Lecacheux, A., see Leblanc, Y., et al. 274, 1012 (98, 529)
- Lecacheux, A., Rosolen, C., Davis, M., Bookbinder, J., Bastian, T.S., Dulk, G.A.: Dynamic spectra of radio sources from 4.5 to 5.0 GHz 275, 670
- Lecacheux, J., see Hubbard, W.B., et al. 269, 541
- Lecacheux, J., see Lecavelier des Etangs, A., et al. 274, 877
- Lecavelier des Etangs, A., Perrin, G., Ferlet, R., Vidal-Madjar, A., Colas, F., Buil, C., Sèvre, F., Arlot, J.-E., Beust, H., Lagrange-Henri, A.-M., Lecacheux, J., Deleuil, M., Gry, C.: Observation of the central part of the β Pictoris disk with an anti-blooming CCD 274, 877
- Leedjävär, L., see Annuk, K., et al. 269, L5
- Lefèvre, J., see Lopez, B., et al. 270, 462
- Lefèvre, J., see Lorenz-Martins, S. 280, 567
- Léger, A., Pirre, M., Marceau, F.J.: Search for primitive life on a distant planet: relevance of O₂ and O₃ detections 277, 309
- Lehoucq, R., Roland, J., Pelletier, G.: Mixed shocks: spectral selection of the class of solutions 268, 93
- Lei, F., Roques, J.P., Mandrou, P., Vedrenne, G., Ballet, J., Cordier, B., Lebrun, F., Leray, J.P., Churazov, E., Gilfanov, M., Sunyaev, R., Bogomolov, A., Khavenson, N., Kuleshova, N., Tserenin, I., Sukhanov, K.: Search for the compact 511 keV radiation source in the Galactic centre region with SIGMA 272, 735 (97, 189)
- Lei, F., see Laurent, P., et al. 272, 737 (97, 225)
- Lei, F., see Denis, M., et al. 272, 743 (97, 333)
- Leikov, N., see Olive, J.-F., et al. 272, 743 (97, 325)
- Leikov, N.G., Akimov, V.V., Volzhenskaya, V.A., Kalinkin, L.F., Nesterov, V.E., Galper, A.M., Zemskov, V.M., Oserov, Y.V., Topchiev, N.P., Fradkin, M.I., Tchuikin, E.I., Tugaenko, V.Y., Gros, M., Grenier, I.A., Bazer-Bachi, A.R., Lavigne, J.M., Olive, J.F.: Spectral characteristics of high energy gamma-ray solar flares 272, 744 (97, 345)
- Leinert, C., see Haas, M., et al. 269, 282
- Leinert, C., Haas, M., Weitzel, N.: Near-infrared speckle interferometry of Lk H α 233 271, 535
- Leinert, C., Zinnecker, H., Weitzel, N., Christou, J., Ridgway, S.T., Jameson, R., Haas, M., Lenzen, R.: A systematic search for young binaries in Taurus 278, 129
- Leising, M., see Hartmann, D., et al. 272, 737 (97, 219)
- Leising, M.D., see Johnson, W.N., et al. 272, 725 (97, 21)
- Leising, M.D.: Hard emission from classical novae 272, 741 (97, 299)
- Leising, M.D., see Share, G.H., et al. 272, 744 (97, 341)
- Lellouch, E., see Hubbard, W.B., et al. 269, 541
- Lemaître, G., see Wang, M. 271, 365
- Lemaître, G., see Ferrari, M. 274, 12
- Lemelin, G., Lessard, R.A., Borra, E.F.: An investigation of holographic correctors for astronomical telescopes 274, 983
- Lemke, R., see Chini, R., et al. 272, L5
- Lemke, R., see Guélin, M., et al. 279, L37
- Lemke, R., see Gordon, M.A., et al. 280, 208
- Lemme, C., see Henkel, C., et al. 268, L17
- Lemme, C., see Wilson, T.L., et al. 276, L29
- Lemoine, D., see Olive, J.F., et al. 272, 742 (97, 321)
- Lemoine, M., Ferlet, R., Vidal-Madjar, A., Emerich, C., Bertin, P.: In-

- terstellar lithium and the $^7\text{Li}/^6\text{Li}$ ratio toward ρ Ophiuchi 269, 469
- Lemoine, M., Vidal-Madjar, A., Ferlet, R.: A new method for determining the $^3\text{He}/^4\text{He}$ ratio in the local interstellar medium 273, 611
- Léna, P., see Malbet, F., et al. 271, L9
- Lennon, D.J., Dufton, P.L., Fitzsimmons, A.: Galactic B-supergiants. II. Line strengths in the visible – Evidence for evolutionary effects? 272, 750 (97, 559)
- Lenzen, R., see Leinert, C., et al. 278, 129
- Lenzen, R., see Zenner, S. 279, 337 (101, 363)
- Leone, F., Umana, G.: Periodic radio emission from the helium-strong stars HD 37017 and σ Ori E 268, 667
- Leone, F., see Catalano, F.A. 272, 749 (97, 501)
- Leone, F.: The circumstellar matter of the magnetic helium-strong star HD 37017 273, 509
- Leone, F., see Catalano, F.A., et al. 273, 354 (98, 269)
- Leone, F., see Catalano, F.A. 276, 328 (100, 319)
- Leone, F., Catalano, F.A., Manfrè, M.: The chemically peculiar star HD 37808 279, 167
- Léorat, J., see Puy, D., et al. 267, 337
- Léorat, J., see Chantry, P., et al. 272, 555
- Lépine, J.R.D., see Hetem Jr., A. 270, 451
- Lépine, J.R.D., see Guglielmo, F., et al. 274, 1015 (99, 31)
- Lépine, J.R.D., see Ortiz, R. 279, 90
- Lequeux, J., see Rubio, M., et al. 271, 1
- Lequeux, J., see Rubio, M., et al. 271, 9
- Lequeux, J., see Le Bertre, T. 274, 909
- Lequeux, J., see Israel, F.P., et al. 276, 25
- Lequeux, J., see Cananzi, K., et al. 279, 678 (101, 599)
- Lequeux, J., Allen, R.J., Guilloteau, S.: CO absorption in the outer Galaxy: abundant cold molecular gas 280, 23
- Lequeux, J., see Meyssonnier, N., et al. 280, 346 (102, 251)
- Leray, J.-P., see Mandrou, P., et al. 272, 724 (97, 1)
- Leray, J.P., see Churazov, E., et al. 272, 734 (97, 173)
- Leray, J.P., see Cordier, B., et al. 272, 734 (97, 177)
- Leray, J.P., see Lei, F., et al. 272, 735 (97, 189)
- Leray, J.P., see Denis, M., et al. 272, 743 (97, 333)
- Lerche, I., see Schlickeiser, R., et al. 276, 614
- Lerner, M.S., Bååth, L.B., Inoue, M., Padin, S., Rogers, A.E.E., Wright, M.C.H., Zensus, A., Backer, D.C., Booth, R.S., Carlstrom, J.E., Emerson, D.T., Hirabayashi, H., Hodges, M.W., Jewell, P., Kobayashi, H., Kus, A.J., Moran, J.M., Morimoto, M., Plambeck, R.L., Rantakyrö, F.T., Woody, D.: A 100 GHz map of 3C 446 280, 117
- Leroy, J.L., Landolfi, M., Landi Degl'Innocenti, E.: Linear polarimetry of Ap stars. II. New observations with a reappraisal of former ones 270, 335
- Leroy, J.L., see Bel, N., et al. 270, 444
- Leroy, J.L., see Landolfi, M., et al. 272, 285
- Leroy, J.L.: A polarimetric investigation on interstellar dust within 50 pc from the Sun 274, 203
- Leroy, J.L.: Optical polarization of 1000 stars within 50 pc of the Sun 279, 677 (101, 551)
- Lesch, H., Harnett, J.: Galactic dynamics and magnetic fields. I. Superbubbles in galactic central regions 268, 58
- Lesch, H., see Reuter, H.P., et al. 277, 21
- Lesch, H., see Hanasz, M. 278, 561
- Lesch, H., see von Linden, S., et al. 280, 468
- Lessard, R.A., see Lemelin, G., et al. 274, 983
- Lestrade, J.P., Dezalay, J.P., Atteia, J.-L., Barat, C., Talon, R., Sunyayev, R., Kuznetsov, A., Terekhov, O., Diachkov, A., Khavenson, N.: The duration vs intensity diagram for a subset of PHEBUS gamma-ray bursts 272, 728 (97, 79)
- Levin, B.N., see Itkina, M.A., et al. 279, 235
- Levine, H.I., Petters, A.O.: New caustic singularities in multiple lens plane gravitational lensing 272, L17
- Levkovsky, V.I., see Mashnich, G.P., et al. 269, 503
- Levkovsky, V.L., see Druzhinin, S.A., et al. 277, 242
- Lewin, W.H.G., see Penninx, W., et al. 267, 92
- Lewin, W.H.G., see Magnier, E.A., et al. 272, 695
- Lewin, W.H.G., see Magnier, E.A., et al. 278, 36
- Lewin, W.H.G., see van der Klis, M., et al. 279, L21
- Lewis, D.A., see Akerlof, C.W., et al. 274, L17
- Li, J., see Cuperman, S., et al. 268, 749
- Li, J., see Cuperman, S., et al. 278, 279
- Li, J., Cuperman, S., Semel, M.: On the removal of the 180° sign ambiguity in vector magnetograph measurements: the divergence-free method ($\nabla \cdot B=0$) 279, 214
- Li, K.J., Ding, Y.J., Gu, X.M., Li, Q.S., Zhong, S.H., Li, Q.Y.: Physical parameter fields of the post-flare loop system on February 18, 1984 269, 496
- Li, Q., see Catala, C., et al. 275, 245
- Li, Q.S., see Li, K.J., et al. 269, 496
- Li, Q.Y., see Li, K.J., et al. 269, 496
- Li, T.P., see Cheng, L.X., et al. 277, L13
- Li Dongming, see Xu Jiayan, et al. 271, 360
- Li Qi, see Xu Jiayan, et al. 271, 360
- Li Zhi-ping, see Breger, M., et al. 271, 482
- Liang, E.P., Hui Li: Possible stellar flare contributions to the BATSE gamma-ray burst database 273, L53
- Lichti, G.G., see Schönfelder, V., et al. 272, 725 (97, 27)
- Lichti, G.G., see Collmar, W., et al. 272, 728 (97, 71)
- Lichti, G.G., see Connors, A., et al. 272, 728 (97, 75)
- Lichti, G.G., see Hermsen, W., et al. 272, 730 (97, 97)
- Lichti, G.G., see Strong, A.W., et al. 272, 732 (97, 133)
- Lichti, G.G., see Diehl, R., et al. 272, 735 (97, 181)
- Lichti, G.G., Bennett, K., Bloemen, H., de Boer, H., Busetta, M., Collmar, W., Connors, A., Diehl, R., van Dijk, R., den Herder, J.W., Hermsen, W., Kuiper, L., Lockwood, J., Macri, J., McConnell, M., Morris, D., Much, R., Ryan, J., Schönfelder, V., Simpson, G., Stacy, J.G., Steinle, H., Strong, A.W., Swannenburg, B.N., Varendorff, M., de Vries, C., Winkler, C.: Preliminary results from COMPTEL on a search for gamma-ray line emission from SN 1991 T 272, 736 (97, 215)
- Lichti, G.G., see Bennett, K., et al. 272, 742 (97, 317)
- Liechti, S., see Steppe, H., et al. 280, 350 (102, 611)
- Ligori, S., see Robberto, M., et al. 280, 241
- Likkel, L., see Silva, A.M., et al. 275, 510
- Liller, W., see Fulle, M., et al. 272, 634
- Lima, J.J.G., Priest, E.R.: Two-dimensional models for solar and stellar winds: hydrodynamic effects 268, 641
- Lima-Neto, G., see Gerbal, D., et al. 273, L9
- Lin, J.C., see Mahoney, W.A., et al. 272, 746 (97, 385)
- Lin, R., see Durouchoux, P., et al. 272, 735 (97, 185)
- Lin, R.P., see Feffer, P.T., et al. 272, 726 (97, 31)
- Lin, R.P., see Smith, D.M., et al. 272, 736 (97, 199)
- Lin, Y.C., see Hunter, S.D., et al. 272, 59
- Lin, Y.C., see Fichtel, C.E., et al. 272, 725 (97, 13)
- Lin, Y.C., see von Montigny, C., et al. 272, 730 (97, 101)
- Lin, Y.C., see Kanbach, G., et al. 272, 744 (97, 349)
- Lindroos, K.P., see Gahm, G.F., et al. 276, 329 (100, 371)
- Lindsey, C., see Harrison, R.A., et al. 274, L9
- Ling, J., see Couteau, P., et al. 276, 328 (100, 305)
- Ling, J.C., see Mahoney, W.A., et al. 272, 733 (97, 159)
- Lingenfelter, R.E., see Ramaty, R. 272, 732 (97, 127)
- Linhart, A., see Wilson, T.L., et al. 276, L29

- Linnert, M.D., see Schramm, K.-J., et al. 278, 391
- Lipman, K., see Vladilo G., et al. 280, L11
- Lipovetsky, V.A., see Federici, L., et al. 274, 87
- Lipovka, N.M., see Parijskij, Y.N., et al. 273, 356 (98, 391)
- Lipovka, N.M., see Parijskij, Y.N., et al. 273, 356 (98, 391)
- Lipovka, N.M., see Bursov, N.N., et al. 279, 675 (101, 447)
- Lipunov, V.M., see Treves, A., et al. 269, 319
- Liseau, R., see Fridlund, C.V.M., et al. 273, 601
- Liseau, R., see Gahm, G.F., et al. 274, 415
- Liseau, R., see Lorenzetti, D., et al. 275, 489
- Liseau, R., see Gahm, G.F., et al. 279, 477
- Liseau, R., see Molinari, S., et al. 279, 680 (101, 59)
- Liszt, H.S., see Burton, W.B. 274, 765
- Liszt, H.S., see Lucas, R. 276, L33
- Little, J.E., see Conlon, E.S., et al. 272, 243
- Little, L.T., see Heaton, B.D., et al. 278, 238
- Liu, F.K., see Xie, G.Z., et al. 278, 6
- Liu Zong-Li: The period analysis of HD 93044 and its amplitude variations 274, 220
- Liu Zongli, see Sterken, C., et al. 273, 355 (98, 383)
- Liu Zongli, see Sterken, C., et al. 280, 344 (102, 79)
- Livengood, T.A., see Deleuil, M., et al. 267, 187
- Livingston, W., see Solanki, S.K., et al. 277, 639
- Loader, B.R., see Rafferty, T.J. 271, 727
- Lobel, A., see Nieuwenhuijzen, H., et al. 280, 195
- Lochner, O., see Krichbaum, T.P., et al. 275, 375
- Lockwood, J., see Schönfelder, V., et al. 272, 725 (97, 27)
- Lockwood, J., see Collmar, W., et al. 272, 728 (97, 71)
- Lockwood, J., see Connors, A., et al. 272, 728 (97, 75)
- Lockwood, J., see Strong, A.W., et al. 272, 732 (97, 133)
- Lockwood, J., see Diehl, R., et al. 272, 735 (97, 181)
- Lockwood, J., see Lichti, G.G., et al. 272, 736 (97, 215)
- Lockwood, J., see Bennett, K., et al. 272, 742 (97, 317)
- Lockwood, J.A., see Hermesen, W., et al. 272, 730 (97, 97)
- Lodén, K., see Gahm, G.F., et al. 276, 329 (100, 371)
- Lohinger, E., Dvorak, R.: Stability regions around L_4 in the elliptic restricted problem 280, 683
- Longo, G., see Arnaboldi, M., et al. 268, 103
- Longo, G., see Tenjes, P., et al. 275, 61
- Longo, G., see Lorenz, H., et al. 277, L15
- Longo, G., see Lorenz, H., et al. 277, 321
- Loose, H.-H., see Sage, L.J., et al. 273, 6
- Lopez, B., Perrier, C., Mékarnia, D., Lefèvre, J., Gay, J.: Dust shell modelling of the carbon star IRAS 15194-5115 270, 462
- Lopez, B., Sarazin, M.: The ESO atmospheric temporal coherence monitor dedicated to high angular resolution imaging 276, 320
- López, J.A., Roth, M., Tapia, M.: Episodic symmetric jets in the planetary nebula Fig 1 267, 194
- López, J.A., see Meaburn, J., et al. 276, L21
- López de Coca, P., see Rodríguez, E., et al. 273, 473
- López de Coca, P., see Rodríguez, E., et al. 277, 363 (100, 571)
- López de Coca, P., see Rodríguez, E., et al. 279, 338 (101, 421)
- Lorenz, H., Böhm, P., Capaccioli, M., Richter, G.M., Longo, G.: A new technique to gauge luminosity fluctuations in galaxies. I. An application to NGC 1374 and 1375 277, L15
- Lorenz, H., Richter, G.M., Capaccioli, M., Longo, G.: Adaptive filtering in astronomical image processing. I. Basic considerations and examples 277, 321
- Lorenz-Martins, S., Lefèvre, J.: SiC in circumstellar shells around C stars 280, 567
- Lorenzetti, D., Spinoglio, L., Liseau, R.: Star formation in the Vela molecular clouds. II. The luminosity function of the Class I sources 275, 489
- Lorenzetti, D., see Molinari, S., et al. 279, 680 (101, 59)
- Lorrain, P., Koutchmy, S.: Photospheric electric currents in solar magnetic elements 269, 518
- Lortet, M.C., see Testor, G., et al. 280, 426
- Loudagh, S., Provost, J., Berthomieu, G., Ehgamberdiev, S., Fossat, E., Gelly, B., Grec, G., Khalikov, S., Lazrek, M., Palle, P., Regulo, C., Sanchez, L., Schminder, F.X.: A measurement of the $l=1$ solar rotational splitting 275, L25
- Loudagh, S., see Ulrich, R.K., et al. 280, 268
- Loudagh, S., see Pallé, P.L., et al. 280, 324
- Loulergue, M., see Bottinelli, L., et al. 280, 344 (102, 57)
- Loup, C., see Omont, A., et al. 267, 515
- Loup, C., Forveille, T., Omont, A., Paul, J.F.: CO and HCN observations of circumstellar envelopes. A catalogue. Mass loss rates and distributions 275, 354 (99, 291)
- Lowe, R.M., see Biémont, E. 273, 665
- Loyola, P., see Carrasco, G. 277, 361 (100, 489)
- Lu, T., see Luo, L.-F., et al. 275, 192
- Lu Chun-Lin: Digital image centering with the maximum likelihood method 275, 349
- Lucas, R., see Omont, A., et al. 267, 490
- Lucas, R., Liszt, H.S.: Plateau de Bure observations of mm-wave molecular absorption toward BL Lacertae 276, L33
- Lucas, R., see Guélin, M., et al. 280, L19
- Lucchini, D., see Vokrouhlický, D., et al. 280, 282
- Lucy, L.B., see Mazzali, P.A., et al. 269, 423
- Lucy, L.B., see Mazzali, P.A. 279, 447
- Ludke, E., see Akujor, C.E., et al. 274, 752
- Luke, P., see Feffer, P.T., et al. 272, 726 (97, 31)
- Luke, P., see Smith, D.M., et al. 272, 736 (97, 199)
- Lumme, K., see Jämsä, S., et al. 271, 319
- Luna, H.G., Martínez, R., Combi, J.A., Romero, G.E.: Polarization variability of extragalactic radio sources at 1435 MHz 269, 77
- Lund, N., see Brandt, S., et al. 272, 739 (97, 257)
- Lund, N.: Nova Muscae 1991, an exciting dwarf X-ray transient 272, 741 (97, 289)
- Lund, N., see Shrader, C.R., et al. 272, 742 (97, 309)
- Lund, N., see Castro-Tirado, A.J., et al. 272, 743 (97, 329)
- Lund, N., see Ubertini, P., et al. 272, 746 (97, 389)
- Lund, N., see Castro-Tirado, A.J., et al. 276, L37
- Luo, L.-F., Yang, G.-C., Lu, T.: A possible explanation of the origin of the second kind of magnetic fields of neutron stars 275, 192
- Luri, X., Mennessier, M.O., Torra, J., Figueras, F.: A new approach to the Malmquist bias 267, 305
- Luridiana, V., see Castellani, V., et al. 272, 442
- Lustig, G., Wöhl, H.: Large-scale solar plasma rotation around stable sunspots 278, 637
- Lyons, M.A., see Kemp, S.N., et al. 278, 542
- Ma, Y.Q., see Cheng, L.X., et al. 277, L13
- Maccacaro, T., see Molendi, S., et al. 271, 18
- Maccagni, D., see Garilli, B., et al. 275, 687 (100, 33)
- Maccarone, M.C., see Bucheri, R., et al. 277, 353
- Macchetto, F., see Jackson, N., et al. 269, 128
- Macchetto, F., see Barbieri, C., et al. 273, 1
- Maceroni, C., van 't Veer, F.: The uniqueness of photometric solutions for spotted W Ursae Majoris binaries 277, 515
- Machado, M.E., see Mandrini, C.H., et al. 272, 609
- Machalski, J., Magdziarz, P.: High-frequency variability of extragalactic radio sources. I. A dependence of the apparent variability on wavelength, time base of observations, and rate of time sampling 267, 363
- Machalski, J., see Magdziarz, P. 275, 405
- Machalski, J., Magdziarz, P.: Deep optical identifications of compact

- radio sources selected from the GB/GB2 sample **280, 346 (102, 315)**
- Maciel, W.J., see Costa, R.D.D., et al. **276, 184**
- Maciel, W.J., see de Freitas Pacheco, J.A., et al. **279, 567**
- Mack, K.-H., Ferretti, L., Giovannini, G., Klein, U.: Observations of 10 tailed radio sources at 10.6 GHz **280, 63**
- Mackay, C.D., see Barbieri, C., et al. **273, 1**
- MacQueen, R.M., see Mann, I. **275, 293**
- Macri, J., see Schönfelder, V., et al. **272, 725 (97, 27)**
- Macri, J., see Collmar, W., et al. **272, 728 (97, 71)**
- Macri, J., see Connors, A., et al. **272, 728 (97, 75)**
- Macri, J., see Hermen, W., et al. **272, 730 (97, 97)**
- Macri, J., see Strong, A.W., et al. **272, 732 (97, 133)**
- Macri, J., see Diehl, R., et al. **272, 735 (97, 181)**
- Macri, J., see Licht, G.G., et al. **272, 736 (97, 215)**
- Macri, J., see Bennett, K., et al. **272, 742 (97, 317)**
- Madden, N., see Feffer, P.T., et al. **272, 726 (97, 31)**
- Madden, N., see Smith, D.M., et al. **272, 736 (97, 199)**
- Maddison, R.C., see Evans, A., et al. **267, 161**
- Madejsky, R., Bien, R.: The high-velocity encounter of NGC 4782/4783: comparison of numerical experiments and observations **280, 383**
- Maeder, A.: Stellar yields as a function of initial metallicity and mass limit for black hole formation **268, 833**
- Maeder, A., see Meynet, G., et al. **274, 1011 (98, 477)**
- Maeder, A., see Schaerer, D., et al. **274, 1012 (98, 523)**
- Maeder, A., Meynet, G.: Isotopic anomalies in cosmic rays and the metallicity gradient in the Galaxy **278, 406**
- Maeder, A., see Charbonnel, C., et al. **279, 338 (101, 415)**
- Maeder, A., see Schaerer, D., et al. **280, 346 (102, 339)**
- Magain, P., Zhao, G.: Barium isotopes in the very metal-poor star HD 140283 **268, L27**
- Magain, P., Surdej, J., Vandierst, C., Pirenne, B., Hutsemékers, D.: (Letter) Q 1208+1011: the most distant multiply imaged quasar, or a binary? **272, 383**
- Magdziarz, P., see Machalski, J. **267, 363**
- Magdziarz, P., Machalski, J.: High-frequency variability of extragalactic radio sources. II. A statistical multi-frequency model of variability **275, 405**
- Magdziarz, P., see Machalski, J. **280, 346 (102, 315)**
- Magnan, C.: The method of addition of layers for non-linear radiative transfer problems: practical applications **271, 543**
- Magnan, C., see Rokaki, E., et al. **272, 8**
- Magnier, E.A., Lewin, W.H.G., van Paradijs, J., Hasinger, G., Pietsch, W., Trümper, J.: Astrometry in the field of M 31 **272, 695**
- Magnier, E.A., Battinelli, P., Lewin, W.H.G., Haiman, Z., van Paradijs, J., Hasinger, G., Pietsch, W., Supper, R., Trümper, J.: Automated identification of OB associations in M 31 **278, 36**
- Mahon, M.E., see Kandrup, H.E., et al. **271, 440**
- Mahoney, W.A., Ling, J.C., Wheaton, W.A.: High-resolution spectrum of the Galactic center **272, 733 (97, 159)**
- Mahoney, W.A., Callas, J.L., Lin, J.C., Radocinski, R.G., Skelton, R.T., Varnell, L.S., Wheaton, W.A.: Gamma-ray imaging with germanium detectors **272, 746 (97, 385)**
- Maillard, J.P., see Mosser, B., et al. **267, 604**
- Maisack, M., see Kunz, M., et al. **268, 116**
- Maisack, M., see Johnson, W.N., et al. **272, 725 (97, 21)**
- Maisack, M., see Sunyaev, R.A., et al. **280, L1**
- Maitzen, H.M.: Photoelectric search for peculiar stars in open clusters. XIV. NGC 1901, NGC 2169, NGC 2343, Cr 132, NGC 2423 and NGC 2447 **280, 343 (102, 1)**
- Makarova, I.N., see Cappellaro, E., et al. **268, 472**
- Makarova, I.N., see Cappellaro, E., et al. **273, 383**
- Malagnini, M.L., see Morossi, C., et al. **277, 173**
- Malaguti, G., see Caroli, E., et al. **272, 746 (97, 393)**
- Malbet, F., Rigaut, F., Bertout, C., Léna, P.: Detection of a 400 AU disk-like structure surrounding the young stellar object Z CMa **271, L9**
- Malet, I., Montmerle, T., von Ballmoos, P.: A two-dimensional thin hot plasma model for the distribution of ^{26}Al γ -rays **272, 732 (97, 137)**
- Malet, I., see Durouchoux, P., et al. **272, 735 (97, 185)**
- Malet, I., see Smith, D.M., et al. **272, 736 (97, 199)**
- Malone, D., see Feffer, P.T., et al. **272, 726 (97, 31)**
- Malone, D., see Smith, D.M., et al. **272, 736 (97, 199)**
- Malyuto, V.: Estimates of the accuracy of stellar physical parameters from intercomparison of catalogues **278, 73**
- Mampaso, A., see Cuesta, L., et al. **267, 199**
- Manandhar, R.P., see Grindlay, J.E., et al. **272, 733 (97, 155)**
- Manchado, A., see Garcia-Lario, P., et al. **267, L11**
- Manchado, A., see Parthasarathy, M., et al. **267, L19**
- Manchanda, R.K., see Chitnis, V.R., et al. **268, 609**
- Manchanda, R.K., see Polcaro, V.F., et al. **272, 732 (97, 139)**
- Mancini, D., see Giovannelli, F., et al. **272, 747 (97, 395)**
- Mandel, H., see Stahl, O., et al. **274, L29**
- Mandel, H., see Stahl, O., et al. **274, 1016 (99, 165)**
- Mandriani, C.H., Rovira, M.G., Démoulin, P., Hénoux, J.C., Machado, M.E., Wilkinson, L.K.: Evidence for magnetic reconnection in large-scale magnetic structures in solar flares **272, 609**
- Mandrou, P., see Cordier, B., et al. **272, 277**
- Mandrou, P., Jourdain, E., Bassani, L., Vedrenne, G., Paul, J., Leray, J.-P., Lebrun, F., Ballet, J., Churazov, E., Gilfanov, M., Sunyaev, R., Bogomolov, A., Khavenson, N., Kuleshova, N., Tserenin, I., Sukhanov, K.: Overview of two-year observations with SIGMA on board GRANAT **272, 724 (97, 1)**
- Mandrou, P., see Sunyaev, R., et al. **272, 729 (97, 85)**
- Mandrou, P., see Bassani, L., et al. **272, 729 (97, 89)**
- Mandrou, P., see Churazov, E., et al. **272, 734 (97, 173)**
- Mandrou, P., see Cordier, B., et al. **272, 734 (97, 177)**
- Mandrou, P., see Lei, F., et al. **272, 735 (97, 189)**
- Mandrou, P., see Barret, D., et al. **272, 738 (97, 241)**
- Mandrou, P., see Goldwurm, A., et al. **272, 741 (97, 293)**
- Mandrou, P., see Gilfanov, M., et al. **272, 741 (97, 303)**
- Mandrou, P., see Olive, J.F., et al. **272, 742 (97, 321)**
- Mandrou, P., see Olive, J.F., et al. **272, 743 (97, 335)**
- Mandrou, P., see Cordier, B., et al. **275, L1**
- Manfrè, M., see Leone, F., et al. **279, 167**
- Manfroid, J.: On the reduction of narrow-band photometry **271, 714**
- Manfroid, J., see Sterken, C., et al. **280, 344 (102, 79)**
- Mann, I., see Mukai, T. **271, 530**
- Mann, I., MacQueen, R.M.: The solar F-corona at 2.12 μm : calculations of near-solar dust in comparison to 1991 eclipse observations **275, 293**
- Mannheim, K.: The proton blazar **269, 67**
- Mannheim, K., see Falcke, H., et al. **278, L1**
- Mannucci, F., see Salvati, M., et al. **274, 174**
- Manousoyanaki, J., see Baffa, C., et al. **280, 20**
- Mantegazza, L., Poretti, E.: Pulsational behaviours of the δ Scuti stars HD 18878 and HD 19279 **274, 811**
- Manteiga, M., see Caputo, F., et al. **276, 41**
- Mantel, K.H., see Wolf, S., et al. **273, 160**
- Mantovani, F., see Spangler, S.R., et al. **267, 213**
- Manzo, G., see Ubertini, P., et al. **272, 746 (97, 389)**
- Maoli, R., see de Bernardis, P., et al. **269, 1**
- Marang, F., see Ivison, R.J., et al. **277, 510**
- Marano, B., see Federici, L., et al. **274, 87**

- Marcaide, J.M., see Alberdi, A., et al. 271, 93
 Marcaide, J.M., see Krichbaum, T.P., et al. 274, L37
 Marcaide, J.M., see Gómez, J.L., et al. 274, 55
 Marcaide, J.M., see Alberdi, A., et al. 277, L1
 Marcaide, J.M., see Jackson, N., et al. 280, 128
 Marceau, F.J., see Léger, A., et al. 277, 309
 Marcelin, M., see Rosado, M., et al. 272, 541
 Marchal, J., see Michard, R. 273, 351 (98, 29)
 Marck, J.A., see Bonazzola, S. 267, 623
 Marck, J.A., see Bonazzola, S., et al. 278, 421
 Marco, E., see Aballe Villero, M.A., et al. 267, 275
 Marcozzi, S., see Giovannelli, F., et al. 272, 747 (97, 395)
 Mardirossian, F., see Giuricin, G., et al. 275, 390
 Mardones, D., see Garay, G., et al. 277, 405
 Margon, B., see Vermeulen, R.C., et al. 270, 204
 Mariani, F., see Neubauer, F.M., et al. 268, L5
 Markova, N.: A possible cause for the variations in the "underlying" absorption-line profiles in the spectrum of P Cygni 273, 555
 Marlborough, J.M., see Waters, L.B.F.M., et al. 272, L9
 Marmolino, C., Severino, G., Deubner, F.-L., Fleck, B.: Phases and amplitudes of acoustic-gravity waves. II. The effects of reflection 278, 617
 Marraco, H.G., see Waldhausen, S. 267, 255
 Marschall, H., see Neubauer, F.M., et al. 268, L5
 Marschhäuser, H., see Chupp, E.L., et al. 275, 602
 Marshall, K.P., see Griffin, R.E.M., et al. 274, 225
 Martelli, G., Rothwell, P., Giblin, I., Smith, P.N., Di Martino, M., Farinella, P.: Fragment jets from catastrophic break-up events and the formation of asteroid binaries and families 271, 315
 Marten, A., see Guilloteau, S., et al. 279, 661
 Marten, H.: On high-temperature halos around planetary nebulae 277, L9
 Martí, J., see Estalella, R., et al. 268, 178
 Martí, J., see Paredes, J.M., et al. 280, 347 (102, 381)
 Martin, B., see Breger, M., et al. 271, 482
 Martín, E.L., see Bouvier, J., et al. 272, 176
 Martín, E.L., see McKeith, C.D., et al. 273, 331
 Martín, E.L., Rebolo, R.: EK Cephei B: a test object for pre-ZAMS models of solar-type stars 274, 274
 Martín, E.L., see Bouvier, J., et al. 279, 675 (101, 485)
 Martin, I., Karwowski, J., Dierksen, G.H.F., Barrientos, C.: Transition probabilities in the lithium sequence 277, 363 (100, 595)
 Martin, M., see Ferlet, R., et al. 267, 137
 Martin, P., see Courtès, G., et al. 268, 419
 Martín-Pintado, J., see Juan, J., et al. 270, 432
 Martín-Pintado, J., see Fuente, A., et al. 276, 473
 Martín-Pintado, J., see Hüttemeister, S., et al. 280, 255
 Martinet, L., see Friedli, D. 277, 27
 Martínez, R.E., see Luna, H.G., et al. 269, 77
 Martínez, V.J., Portilla, M., Jones, B.J.T., Paredes, S.: The galaxy clustering correlation length 280, 5
 Martínez Pillet, V., Vázquez, M.: The continuum intensity-magnetic field relation in sunspot umbrae 270, 494
 Martínez Pillet, V., Moreno-Inertis, F., Vázquez, M.: The distribution of sunspot decay rates 274, 521
 Martínez-Roger, C., see Kidger, M.R. 267, 111
 Martinis, L., see de Bernardis, P., et al. 271, 683
 Marziani, P., see Rafanelli, P., et al. 275, 451
 Mas, M., see Ubertini, P., et al. 272, 746 (97, 389)
 Masegosa, J., see Wanders, I., et al. 269, 39
 Mashnich, G.P., Druzhinin, S.A., Pevtsov, A.A., Levkovsky, V.I.: Line-of-sight velocity measurements using a dissector-tube. III. Prominence oscillations 269, 503
 Mashnich, G.P., see Bashkirtsev, V.S. 279, 610
 Masi, S., see de Bernardis, P., et al. 269, 1
 Masi, S., see de Bernardis, P., et al. 271, 683
 Masnou, J.L., see Olive, J.F., et al. 272, 742 (97, 321)
 Masnou, J.L., see Olive, J.F., et al. 272, 743 (97, 335)
 Massaglia, S.: A two-fluid model for the solar wind 267, 595
 Massaro, E., see Olive, J.F., et al. 272, 742 (97, 321)
 Massaro, E., see Olive, J.F., et al. 272, 743 (97, 335)
 Massaro, E., Matt, G., Perola, G.C., Costa, E., Piro, L., Soffitta, P.: X-ray polarimetry of AGNs with SXP 272, 747 (97, 399)
 Massi, M., Paredes, J.M., Estalella, R., Felli, M.: High resolution radio map of the X-ray binary LSI +61°303 269, 249
 Massi, M., see Neidhöfer, J., et al. 278, L51
 Mastrantonio, G., see de Bernardis, P., et al. 269, 1
 Mathews, G., see Hartmann, D., et al. 272, 737 (97, 219)
 Mathez, G., see Kneib, J.P., et al. 273, 367
 Mathias, P., Gillet, D.: A new tool to study wave propagation: the Van Hoof effect 278, 511
 Mathioudakis, M., see Panagi, P.M. 276, 329 (100, 343)
 Mathioudakis, M., see Doyle, J.G., et al. 278, 499
 Mathioudakis, M., Doyle, J.G.: Far-infrared properties of late-type dwarfs. Infrared fluxes of K and M dwarfs 280, 181
 Mathys, G., see Lanz, T., et al. 272, 465
 Mathys, G., see Lanz, T. 280, 486
 Matt, G., Perola, G.C., Stella, L.: Multiple-peaked line profiles from relativistic disks at high inclination angles 267, 643
 Matt, G., see Olive, J.F., et al. 272, 742 (97, 321)
 Matt, G., see Olive, J.F., et al. 272, 743 (97, 335)
 Matt, G., see Massaro, E., et al. 272, 747 (97, 399)
 Matteson, J., see Durouchoux, P., et al. 272, 735 (97, 185)
 Matteson, J., see Smith, D.M., et al. 272, 736 (97, 199)
 Matteucci, F., Raiteri, C.M., Busso, M., Gallino, R., Gratton, R.: Constraints on the nucleosynthesis of Cu and Zn from models of chemical evolution of the Galaxy 272, 421
 Matteucci, F., see François, P. 280, 136
 Matthews, J.M., see Strassmeier, K.G., et al. 268, 671
 Matthews, J.M., see Bouvier, J., et al. 272, 176
 Matthews, J.M., see Bouvier, J., et al. 279, 675 (101, 485)
 Mattig, W., see Hanslmeier, A., et al. 270, 516
 Mattig, W., see Federspiel, M. 276, 227
 Mattig, W., see Nesis, A., et al. 279, 599
 Mattila, K., see Zinchenko, I., et al. 275, L9
 Mattila, K., see Harju, J., et al. 278, 569
 Mattox, J.R., see Hunter, S.D., et al. 272, 59
 Mattox, J.R., see Fichtel, C.E., et al. 272, 725 (97, 13)
 Mattox, J.R., see von Montigny, C., et al. 272, 730 (97, 101)
 Mattox, J.R., see Kanbach, G., et al. 272, 744 (97, 349)
 Matz, S.M., see Johnson, W.N., et al. 272, 725 (97, 21)
 Maucherat, A.-J., see Hua, C.T., et al. 279, 676 (101, 541)
 Mauersberger, R., see Henkel, C., et al. 268, L17
 Mauersberger, R., see Jacq, T., et al. 271, 276
 Mauersberger, R., see Henkel, C. 274, 730
 Mauersberger, R., see Hüttemeister, S., et al. 276, 445
 Mauersberger, R., see Harju, J., et al. 278, 569
 Mauersberger, R., see Wilson, T.L., et al. 280, 221
 Mauron, N., see Doazan, V., et al. 269, 415
 Maury, A., see Benest, D., et al. 271, 621
 Mavridis, L.N., see Doyle, J.G., et al. 278, 499
 Mavridis, L.N., Avgolopoulos, S.: Flare activity and the origin of star-spots 280, L5
 Mavromatakis, F.: Hercules X-1 during the ROSAT All-Sky Survey 273, 147
 Mavromatakis, F., Haberl, F.: Two outbursts from A 0538-66 in the

- ROSAT All-Sky Survey 274, 304
- Mavromatakis, F.: The X Persei system in the ROSAT All-Sky survey 276, 353
- May, J., see Alvarez, H., et al. 271, 435
- May, J., Bronfman, L., Alvarez, H., Murphy, D.C., Thaddeus, P.: A deep CO survey of the third galactic quadrant 274, 1015 (99, 103)
- Mayer-Hasselwander, H.A., see Hunter, S.D., et al. 272, 59
- Mayer-Hasselwander, H.A., see Fichtel, C.E., et al. 272, 725 (97, 13)
- Mayer-Hasselwander, H.A., see von Montigny, C., et al. 272, 730 (97, 101)
- Mayer-Hasselwander, H.A., see Kanbach, G., et al. 272, 744 (97, 349)
- Mayor, M., see Waters, L.B.F.M., et al. 269, 242
- Mayor, M., see Jorissen, A., et al. 271, 463
- Mazzali, P.A., Lucy, L.B., Danziger, I.J., Gouiffes, C., Cappellaro, E., Turatto, M.: Models for the early-time spectral evolution of the 'standard' type Ia supernova 1990 N 269, 423
- Mazzali, P.A., Lucy, L.B.: The application of Monte Carlo methods to the synthesis of early-time supernovae spectra 279, 447
- Mazzitelli, I., see Caloi, V. 271, 139
- McAdam, W.B., see Vermeulen, R.C., et al. 270, 189
- McBreen, B., Plunkett, S., Metcalfe, L.: Gamma-ray bursts from relativistic jets in cocooned active galactic nuclei and gravitational lensing tests of the cosmological origin 272, 729 (97, 81)
- McBride, S., see Feffer, P.T., et al. 272, 726 (97, 31)
- McCausland, R.J.H., see Dufton, P.L., et al. 269, 201
- McCausland, R.J.H., see Conlon, E.S., et al. 272, 243
- McConnell, M., see Schönfelder, V., et al. 272, 725 (97, 27)
- McConnell, M., see Collmar, W., et al. 272, 728 (97, 71)
- McConnell, M., see Connors, A., et al. 272, 728 (97, 75)
- McConnell, M., see Hermesen, W., et al. 272, 730 (97, 97)
- McConnell, M., see Strong, A.W., et al. 272, 732 (97, 133)
- McConnell, M., see Diehl, R., et al. 272, 735 (97, 181)
- McConnell, M., see Lichti, G.G., et al. 272, 736 (97, 215)
- McConnell, M., see Bennett, K., et al. 272, 742 (97, 317)
- McCulloch, P., see Olive, J.-F., et al. 272, 743 (97, 325)
- McGrath, M.A., see Deleuil, M., et al. 267, 187
- McHardy, I.M., see Roche, P., et al. 270, 122
- McKeith, C.D., Castles, J., Greve, A., Downes, D.: Rotation of stars and gas in M 82 272, 98
- McKeith, C.D., see García López, R.J., et al. 273, 482
- McKeith, C.D., García López, R.J., Rebolo, R., Barnett, E.W., Beckman, J.E., Martín, E.L., Traper, J.: IACUB: a new echelle spectrograph for use at the Observatorio del Roque de los Muchachos 273, 331
- McKenzie, J.F., see Breitschwerdt, D., et al. 269, 54
- McKinnon, M.M., Hankins, T.H.: Intensity dependence of the PSR 0329+54 pulse profile 269, 325
- McNamara, B.R., see Henning, P.A., et al. 268, 536
- Meaburn, J., Walsh, J.R., Wolstencroft, R.D.: The outflowing dust around η Carinae 268, 283
- Meaburn, J., see Kemp, S.N. 274, 19
- Meaburn, J., Gehring, G., Walsh, J.R., Palmer, J.W., López, J.A., Bryce, M., Raga, A.C.: An episodic jet from η Carinae 276, L21
- Mebold, U., see Kerp, J., et al. 268, L21
- Mebold, U., see Koribalski, B., et al. 268, 14
- Mebold, U., see Heithausen, A., et al. 268, 265
- Mebold, U., see Herbstmeier, U., et al. 272, 514
- Meegan, C., see Hurley, K., et al. 272, 726 (97, 39)
- Meegan, C.A., see Fishman, G.J., et al. 272, 725 (97, 17)
- Meegan, C.A., see Kouveliotou, C., et al. 272, 727 (97, 55)
- Meegan, C.A., see Paciesas, W.S., et al. 272, 739 (97, 253)
- Mehlert, D., see Borgeest, U. 275, L21
- Meier, A., see Altwegg, K., et al. 279, 260
- Meier, R., Eberhardt, P., Krankowsky, D., Hodges, R.R.: The extended formaldehyde source in comet P/Halley 277, 677
- Mein, N., see Espagnet, O., et al. 271, 589
- Mein, P., see Nesme-Ribes, E., et al. 274, 563
- Meinen, A.T., see Portegies Zwart, S.F. 280, 174
- Meinert, D., see Klein, U., et al. 271, 402
- Meintjes, P.J., see de Jager, O.C. 268, L1
- Meirelles Filho, C.: The effect of convection on two temperature soft photon Comptonized accretion disks 267, 651
- Meisenheimer, K., see von Linde, J., et al. 267, L23
- Mékarnia, D., see Mosser, B., et al. 267, 604
- Mékarnia, D., see Lopez, B., et al. 270, 462
- Mekkaden, M.V., see Sterken, C., et al. 280, 344 (102, 79)
- Melchiorri, B., see de Bernardis, P., et al. 269, 1
- Melchiorri, F., see de Bernardis, P., et al. 269, 1
- Melioransky, A.S., see Sunyaev, R.A., et al. 280, L1
- Mellema, G., see Balick, B., et al. 275, 588
- Mellier, Y., see Kneib, J.-P., et al. 273, 367
- Mellier, Y., see Bonnet, H., et al. 280, L7
- Melnick, J., Altieri, B., Gopal-Krishna, Giraud, E.: Discovery of a luminous giant arc in a high redshift cluster of galaxies 271, L5
- Melnick, J., see Heydari-Malayeri, M., et al. 278, 11
- Méndez, R.H., see Hutton, R.G. 267, L8
- Méndez, R.H., Kudritzki, R.P., Ciardullo, R., Jacoby, G.H.: The bright end of the planetary nebula luminosity function 275, 534
- Mendoza, C., see Cunto, W., et al. 275, L5
- Mendoza, E.E., see Rodríguez, E., et al. 273, 473
- Menéndez, C., see Steppe, H., et al. 280, 350 (102, 611)
- Mennella, V., see Fulle, M., et al. 276, 582
- Mennessier, M.O., see Luri, X., et al. 267, 305
- Mennessier, M.O., see Tuchman, Y., et al. 271, 501
- Menten, K.M., see Baudry, A., et al. 271, 552
- Mereghetti, S., see Belloni, T., et al. 271, 487
- Mereghetti, S., see Bignami, G.F., et al. 272, 738 (97, 229)
- Mereghetti, S.: X-ray variability of galactic black hole candidates 272, 738 (97, 249)
- Mereghetti, S., Stella, L., De Nile, F.: On the nature of the 25-min periodicity from 4U 0142+614: A nearby, slowly spinning neutron star/Be system? 278, L23
- Merlin, G., see Irbah, A., et al. 276, 663
- Merlin, P., see Lagage, P.O., et al. 275, 345
- Mermilliod, J.-C., see Meynet, G., et al. 274, 1011 (98, 477)
- Mermilliod, J.-C., see Huestamendia, G., et al. 275, 687 (100, 25)
- Messina, D.C., see Share, G.H., et al. 272, 744 (97, 341)
- Mészáros, A.: A possible fast growth of adiabatic cosmological perturbations 278, 1
- Metcalfe, L., see McBreen, B., et al. 272, 729 (97, 81)
- Mewe, R., see Kaastra, J.S. 272, 748 (97, 443)
- Meyer, D.I., see Akerlof, C.W., et al. 274, L17
- Meynet, G., Mermilliod, J.-C., Maeder, A.: New dating of galactic open clusters 274, 1011 (98, 477)
- Meynet, G., see Schaerer, D., et al. 274, 1012 (98, 523)
- Meynet, G., see Maeder, A. 278, 406
- Meynet, G., see Charbonnel, C., et al. 279, 338 (101, 415)
- Meynet, G., see Schaerer, D., et al. 280, 346 (102, 339)
- Meyssonnier, N., Lequeux, J., Azzopardi, M.: An objective-prism survey of emission-line objects in M 31 280, 346 (102, 251)
- Meyssonnier, N., Azzopardi, M.: A new catalogue of H α emission-line stars and small nebulae in the Small Magellanic Cloud 280, 349 (102, 451)

- Mezger, P.G., see Falcke, H., et al. 270, 102
 Mezger, P.G., see Krichbaum, T.P., et al. 274, L37
 Mezger, P.G., see Guélin, M., et al. 279, L37
 Mezger, P.G., see Gordon, M.A., et al. 280, 208
 Mezzetti, M., see Giuricin, G., et al. 275, 390
 Micela, G., see Favata, F., et al. 277, 428
 Michalitsianos, A., see Kontizas, E., et al. 267, 59
 Michalitsianos, A.G., see Kontizas, M., et al. 269, 107
 Michard, R., Marchal, J.: Quantitative morphology of E-S0 galaxies. I. Bulge, lens, disk and envelope in edge-on systems 273, 351 (98, 29)
 Michard, R., Simien, F.: Large-scale extinction effects in the disk of S0 galaxies 274, L25
 Michard, R., Simien, F.: (Letter) Large-scale extinction effects in the disk of S0 galaxies 279, 335
 Michel, E., see Goupil, M.J., et al. 268, 546
 Michel, R., see Echevarría, J., et al. 275, 201
 Michelson, P.F., see Hunter, S.D., et al. 272, 59
 Michelson, P.F., see Fichtel, C.E., et al. 272, 725 (97, 13)
 Michelson, P.F., see von Montigny, C., et al. 272, 730 (97, 101)
 Michelson, P.F., see Kanbach, G., et al. 272, 744 (97, 349)
 Mignard, F., see Vokrouhlický, D., et al. 280, 295
 Mihajlov, A.A., Dimitrijević, M.S., Ignjatović, L.M.: The contribution of ion-atom radiative collisions to the opacity of the solar atmosphere 276, 187
 Mikkola, S., see Basu, D., et al. 272, 417
 Miles, R., see Hubbard, W.B., et al. 269, 541
 Miley, G.K., see Hooimeyer, J.R.A., et al. 268, 831
 Miley, G.K., see Jackson, N., et al. 269, 128
 Miley, G.K., see Vermeulen, R.C., et al. 270, 204
 Milgrom, M.: Criticism of Gerbal et al.'s analysis of X-ray clusters in the light of modified dynamics 273, L5
 Millar, T.J., see Henkel, C., et al. 268, L17
 Miller, M., see Fuhr, W., et al. 274, 975
 Milne, D.K., see Dickel, J.R., et al. 275, 265
 Minchin, N.R., White, G.J., Padman, R.: A multi-transitional molecular and atomic line study of S 140 277, 595
 Mineo, T., see Olive, J.F., et al. 272, 742 (97, 321)
 Mineo, T., see Olive, J.F., et al. 272, 743 (97, 335)
 Mineshige, S., Nomoto, K., Shigeyama, T.: Viscous-thermal evolution of free accretion disks around new born neutron stars 267, 95
 Minh, Y.C., Irvine, W.M., Ohishi, M., Ishikawa, S., Saito, S., Kaifu, N.: Measurement of the methyl cyanide E/A ratio in TMC-1 267, 229
 Mirabel, I.F., Rodríguez, L.F., Cordier, B., Paul, J., Lebrun, F.: VLA observations of the hard X-ray sources 1E 1740.7-2942 and GRS 1758-258 272, 735 (97, 193)
 Mirabel, I.F., see Garay, G., et al. 277, 405
 Miranda, L.F., see Gómez de Castro, A., et al. 267, 559
 Miranda, L.F., Eiroa, C., Gómez de Castro, A.I.: New Herbig-Haro objects and pre-main sequence stars in the star formation region NGC 7129 271, 564
 Moehler, S., see Conlon, E.S., et al. 269, L1
 Moehler, S., see Theissen, A., et al. 273, 524
 Mönchmeyer, R., see Janka, H.-T., et al. 268, 360
 Mohan Rao, D., Rangarajan, K.E.: Polarized resonance line transfer with collisional redistribution 274, 993
 Mohanty, G., see Akerlof, C.W., et al. 274, L17
 Mohin, S., Raveendran, A.V.: BV photometry and $H\alpha$ spectroscopy of the RS Canum Venaticorum binary V711 Tauri 276, 329 (100, 331)
 Mohin, S., Raveendran, A.V.: BV photometry and $H\alpha$ spectroscopy of the RS Canum Venaticorum binary II Pegasi 277, 155
 Molaro, P., see Spite, M., et al. 271, L1
 Molaro, P., see Vladilo, G., et al. 274, 37
 Molaro, P., Vladilo, G., Monai, S., D'Odorico, S., Ferlet, R., Vidal-Madjar, A., Dennefeld, M.: Interstellar Ca II and Na I in the SN 1987A field. I. Foreground and intermediate velocity gas 274, 505
 Molendi, S., Maccacaro, T., Schaeidt, S.: Variability of the Seyfert galaxy Mkn 766 in the ROSAT All Sky Survey 271, 18
 Molendi, S., see Boller, T., et al. 279, 53
 Molesini, G., see Greco, V., et al. 277, 345
 Molinari, S., Liseau, R., Lorenzetti, D.: The exciting sources of Herbig-Haro objects. I. A catalogue of 1-20 μ m observations 279, 680 (101, 59)
 Møller, P., Warren, S.J.: Emission from a damped Ly α absorber at $z=2.81$ 270, 43
 Møller, P., see Stiavelli, M., et al. 277, 421
 Molteni, D., see Belvedere, G., et al. 280, 525
 Monai, S., see Vladilo, G., et al. 274, 37
 Monai, S., see Molaro, P., et al. 274, 505
 Monsignori Fossi, B.C., see Landini, M. 275, L17
 Montavon, C.A.P., see Solanki, S.K. 275, 283
 Monteiro, T.S., see Heaton, B.D., et al. 278, 238
 Montesinos, B., see Degenhardt, D., et al. 279, L29
 Montgomery, A.S., see Bates, B., et al. 272, 755 (97, 937)
 Montgomery, D., see Aspin, C., et al. 278, 255
 Montmerle, T., see Malet, I., et al. 272, 732 (97, 137)
 Mony, B., see Kunz, M., et al. 268, 116
 Moorwood, A.F.M., see Origlia, L., et al. 280, 536
 Moos, H.W., see Deleuil, M., et al. 267, 187
 Moran, J.M., see Lerner, M.S., et al. 280, 117
 Morbidelli, A., Scholl, H., Froeschlé, C.: The location of secular resonances close to the 2/1 commensurability 278, 644
 Moreels, G., see Rousselot, P., et al. 277, 653
 Morel, P., see Berthomieu, G., et al. 268, 775
 Morenas, V., see Simien, F., et al. 269, 111
 Moreno, F., see Sánchez, M., et al. 280, 333
 Moreno-Corral, M.A., Chavarria-K., C., de Lara, E., Wagner, S.: $H\alpha$ interferometric, optical and near IR photometric studies of star forming regions. I. The Cepheus B/Sh2-155/Cepheus OB3 association complex 273, 619
 Moreno-Insertis, F., see Martínez Pillet, V., et al. 274, 521
 Morganti, R., see Parma, P., et al. 267, 31
 Morganti, R., see Capetti, A., et al. 275, 354 (99, 407)
 Morimoto, M., see Alberdi, A., et al. 271, 93
 Morimoto, M., see Lerner, M.S., et al. 280, 117
 Morossi, C., Franchini, M., Malagnini, M.L., Kurucz, R.L., Buser, R.: Cool stars: spectral energy distributions and model atmosphere fluxes 277, 173
 Morris, D., see Schönfelder, V., et al. 272, 725 (97, 27)
 Morris, D., see Collmar, W., et al. 272, 728 (97, 71)
 Morris, D., see Connors, A., et al. 272, 728 (97, 75)
 Morris, D., see Hermesen, W., et al. 272, 730 (97, 97)
 Morris, D., see Strong, A.W., et al. 272, 732 (97, 133)
 Morris, D., see Diehl, R., et al. 272, 735 (97, 181)
 Morris, D., see Lichti, G.G., et al. 272, 736 (97, 215)
 Morris, D., see Bennett, K., et al. 272, 742 (97, 317)
 Morris, M., see Omont, A., et al. 267, 490
 Moscadelli, L., see Catarzi, M., et al. 273, 352 (98, 127)
 Moser, G., see Stift, M.J. 268, 617
 Moskalenko, I.V., Karakula, S., Tkaczyk, W.: A model of the Cygnus X-3 system in the gamma-rays region 272, 739 (97, 269)
 Moss, D., see Brandenburg, A., et al. 271, 36
 Mosser, B., Mékarnia, D., Maillard, J.P., Gay, J., Gautier, D., Dela-

- che, P.: Seismological observations with a Fourier transform spectrometer: detection of Jovian oscillations **267**, 604
- Mosser, B., see Provost, J., et al. **274**, 595
- Motch, C., see Vauclair, G., et al. **267**, L35
- Motch, C., Werner, K., Pakull, M.W.: A new PG 1159 star discovered in the ROSAT XRT all sky survey: NLTE analysis of X-ray and optical spectra **268**, 561
- Motch, C., see Boër, M., et al. **272**, 728 (97, 69)
- Motch, C., see Boër, M., et al. **277**, 503
- Motch, C., see Pakull, M.W., et al. **278**, L39
- Mountain, C.M., see Aspin, C., et al. **278**, 255
- Mouradian, Z., Soru-Escout, I.: On solar activity and the solar cycle. A new analysis of the Butterfly Diagram **280**, 661
- Mowlavi, N., see Boffin, H.M.J., et al. **279**, 173
- Much, R., see Schönfelder, V., et al. **272**, 725 (97, 27)
- Much, R., see Collmar, W., et al. **272**, 728 (97, 71)
- Much, R., see Connors, A., et al. **272**, 728 (97, 75)
- Much, R., see Strong, A.W., et al. **272**, 732 (97, 133)
- Much, R., see Diehl, R., et al. **272**, 735 (97, 181)
- Much, R., see Lichti, G.G., et al. **272**, 736 (97, 215)
- Much, R., see Bennett, K., et al. **272**, 742 (97, 317)
- Muders, D., see Wilson, T.L., et al. **280**, 221
- Mückel, J.P., see Gottlöber, S. **272**, 1
- Müller, E., see Höflich, P., et al. **268**, 570
- Müller, E., see Steinmetz, M. **268**, 391
- Müller, E., see Khokhlov, A., et al. **270**, 223
- Müller, E., see Schindler, S. **272**, 137
- Müller, E., see Davies, M.B., et al. **272**, 430
- Müller, E., see Höflich, P., et al. **272**, 737 (97, 221)
- Müller, P., see Dvorak, R., et al. **274**, 627
- Müller, R., Geyer, E.H.: Remarks on the information content of stellar images obtained with CCD detectors **270**, 557
- Mukai, T., Mann, I.: Analysis of Doppler shifts in the zodiacal light **271**, 530
- Mukai, T., see Kozasa, T., et al. **276**, 278
- Mulder, P.S., van Driel, W.: Distribution and motions of H I in the ringed galaxy NGC 4736 **272**, 63
- Muller, P.: Double star measurements made at Nice (*Text in French*) **280**, 350 (102, 643)
- Muller, R., see Espagnet, O., et al. **271**, 589
- Munari, U., see Yudin, B. **270**, 165
- Munari, U.: Studies of symbiotic stars. VII. EG Andromedae **273**, 425
- Munari, U., see Ivison, R.J., et al. **277**, 510
- Munari, U., Patat, F.: Search for resolved H α nebulae around symbiotic stars and their formation mechanisms **277**, 195
- Mundt, R., see Corcoran, D., et al. **279**, 206
- Muñoz-Tuñón, C., Vilchez, J.M., Castañeda, H.O.: Resolving the kinematical structure within the nuclear starburst of NGC 253 **278**, 364
- Murawski, K., Roberts, B.: Random velocity field corrections of the *f*-mode. I. Horizontal flows **272**, 595
- Murawski, K., Roberts, B.: Random velocity field corrections of the *f*-mode. II. Vertical and horizontal flow **272**, 601
- Murawski, K., Goossens, M.: Random velocity field corrections to the *f*-mode. III. A photospheric random flow and chromospheric magnetic field **279**, 225
- Murdin, P.G., see Vermeulen, R.C., et al. **270**, 204
- Muriel, A., Feix, M., Jirkovsky, L.: Time evolution of a density discontinuity in the one-dimensional gravitational gas **279**, 341
- Murphy, D.C., see May, J., et al. **274**, 1015 (99, 103)
- Murphy, H.M., see Doyle, J.G., et al. **278**, 499
- Murphy, R.J., see Johnson, W.N., et al. **272**, 725 (97, 21)
- Murray, C.A., see de Vegt, C., et al. **272**, 755 (97, 985)
- Murray, C.D., see Beurle, K., et al. **269**, 564
- Musmann, G., see Neubauer, F.M., et al. **268**, L5
- Nagase, F., see Corbet, R.H.D., et al. **276**, 52
- Naghizadeh-Khouei, J., see Clarke, D., et al. **269**, 617
- Naghizadeh-Khouei, J., Clarke, D.: On the statistical behaviour of the position angle of linear polarization **274**, 968
- Nagimer, D.I.: Constraints on matrices transforming Stokes vectors **275**, 318
- Nagimer, D.I., Poutanen, J.: Compton scattering of polarized light: scattering matrix for isotropic electron gas **275**, 325
- Najid, N.-E.: Corrections to FK4 positions of stars observed at Paris astrolabe (1962–1980) (*Text in French*) **280**, 347 (102, 389)
- Napiwotzki, R., Schönberner, D., Wenske, V.: On the determination of effective temperature and surface gravity of B, A, and F stars using Strömgren *uvby β* photometry **268**, 653
- Napiwotzki, R., see Klusch, M. **276**, 309
- Napiwotzki, R., Barstow, M.A., Fleming, T., Holweger, H., Jordan, S., Werner, K.: Analysis of the DA white dwarf HZ 43 A and its companion star **278**, 478
- Narain, U., Kumar, S.: An equivalent-circuit representation of Alfvén waves **273**, 659
- Narasimha, D., Chitre, S.M.: Straight arcs in galaxy clusters **280**, 57
- Narumi, Y., see Akabane, T., et al. **277**, 302
- Nasi, E., see Alongi, M., et al. **272**, 754 (97, 851)
- Nasonova, L.P., see Emelyanov, N.V., et al. **267**, 634
- Nasyrov, K.A., Shalagin, A.M.: Separation of chemical elements and isotopes in chemically peculiar stellar atmospheres by the light-induced drift effect **268**, 201
- Natale, V., see Fabbri, R. **267**, L15
- Natale, V., see de Bernardis, P., et al. **271**, 683
- Natale, V., see Palagi, F., et al. **279**, 681 (101, 153)
- Natta, A., Prusti, T., Krügel, E.: Very small dust grains in the circumstellar environment of Herbig Ae/Be stars **275**, 527
- Navarrete, M., see Alvarez, H., et al. **271**, 435
- Navarro, S., see Krichbaum, T.P., et al. **275**, 375
- Nave, G., Johansson, S.: Highly-excited levels of Fe I obtained from laboratory and solar Fourier transform and grating spectra. I. Energy levels **274**, 961
- Nave, G., Johansson, S.: Highly-excited levels of Fe I obtained from laboratory and solar Fourier transform and grating spectra. II. Laboratory and solar identifications **280**, 346 (102, 269)
- Naylor, D.A., see Harrison, R.A., et al. **274**, L9
- Neff, J.E., see Catala, C., et al. **275**, 245
- Neidhöfer, J., Massi, M., Chiuderi-Drago, F.: Periodicities in the radio emission of UX Arietis? **278**, L51
- Neininger, N., Beck, R., Sukumar, S., Allen, R.J.: Magnetic fields and thermal gas in M 83 **274**, 687
- Neizvestny, S.I., see Federici, L., et al. **274**, 87
- Neuner, I., see Papoula, R., et al. **270**, L5
- Neri, L.J., Chavarría-K., C., de Lara, E.: *uvby β* and *JHKLM* photometry of peculiar stars in the galactic cluster NGC 2264 **280**, 345 (102, 201)
- Nesis, A., see Hanslmeier, A., et al. **270**, 516
- Nesis, A., Hanslmeier, A., Hammer, R., Komm, R., Mattig, W., Stäger, J.: Dynamics of the solar granulation. II. A quantitative approach **279**, 599
- Nesme-Ribes, E., Ferreira, E.N., Mein, P.: Solar dynamics over solar cycle 21 using sunspots as tracers. I. Sunspot rotation **274**, 563
- Nesme-Ribes, E., Ferreira, E.N., Vince, I.: Solar dynamics over solar cycle 21 using sunspots as tracers. II. Meridional motions and covariance **276**, 211

- Nesme-Ribes, E., see Ribes, J.C. 276, 549
- Ness, N.F., see Neubauer, F.M., et al. 268, L5
- Nesterov, V., see Olive, J.-F., et al. 272, 743 (97, 325)
- Nesterov, V.E., see Leikov, N.G., et al. 272, 744 (97, 345)
- Neubauer, F.M., Marschall, H., Pohl, M., Glassmeier, K.-H., Musmann, G., Mariani, F., Acuna, M.H., Burlaga, L.F., Ness, N.F., Wallis, M.K., Schmidt, H.U., Ungstrup, E.: First results from the Giotto magnetometer experiment during the P/Grigg-Skjellerup encounter 268, L5
- Neuforge, C.: Alpha Centauri revisited 268, 650
- Neuforge, C.: Low temperature Rosseland mean opacities 274, 818
- Neugebauer, M., see Altwegg, K., et al. 279, 260
- Neugebauer, P., see Kroll, P. 273, 341
- Neukirch, T.: Equilibria of charge-separated rigidly rotating relativistic magnetospheres 274, 319
- Nevo, Y., see Hubbard, W.B., et al. 269, 541
- Nezel, M., see Hubbard, W.B., et al. 269, 541
- Ng, Y.K., see Sterken, C., et al. 280, 344 (102, 79)
- Nguyen-Q-Rieu, see Hu, J.Y., et al. 273, 185
- Nguyen-Q-Rieu, see Truong-Bach, et al. 277, 133
- Niarchos, P., see Sterken, C., et al. 280, 344 (102, 79)
- Nicholson, W., see de Vegt, C., et al. 272, 755 (97, 985)
- Nicolson, I.K.M., see Hubbard, W.B., et al. 269, 541
- Niel, M., see Hurley, K., et al. 272, 726 (97, 39)
- Niel, M., see Churazov, E., et al. 272, 734 (97, 173)
- Niel, M., see Cordier, B., et al. 272, 734 (97, 177)
- Niel, M., see Durouchoux, P., et al. 272, 735 (97, 185)
- Niel, M., see Smith, D.M., et al. 272, 736 (97, 199)
- Niel, M., see Grebenev, S., et al. 272, 740 (97, 281)
- Niel, M., see Olive, J.F., et al. 272, 742 (97, 321)
- Niel, M., see Olive, J.F., et al. 272, 743 (97, 335)
- Niemeyer, M., Biermann, P.L.: The emission spectra of radioweak quasars. I. The far-infrared emission 279, 393
- Nieser, L., see von Linde, J., et al. 267, L23
- Nieser, L., see Schramm, T., et al. 268, 350
- Nieuwenhuijzen, H., see Achmad, L., et al. 277, 361 (100, 465)
- Nieuwenhuijzen, H., de Jager, C., Tuntz, M., Lobel, A., Achmad, L.: A generalized version of the Rankine-Hugoniot relations including ionization, dissociation, radiation and related phenomena 280, 195
- Nikonova, M.V., see Druzhinin, S.A., et al. 277, 242
- Nindos, A., see Alissandrakis, C.E., et al. 270, 509
- Nissen, P.E., see Edvardsson, B., et al. 275, 101
- Nissen, P.E., see Edvardsson, B., et al. 280, 349 (102, 603)
- Noël, F., see Pešek, I., et al. 274, 621
- Noël, F., see Chollet, F. 276, 655
- Noël, F.: Observations of the Sun during 1990–1992 with the astrolabe of Santiago 280, 343 (102, 11)
- Noels, A., see Grevesse, N., et al. 271, 587
- Noels, A., see Bizzarri, A., et al. 273, 707
- Nolan, P.L., see Hunter, S.D., et al. 272, 59
- Nolan, P.L., see Fichtel, C.E., et al. 272, 725 (97, 13)
- Nolan, P.L., see von Montigny, C., et al. 272, 730 (97, 101)
- Nolan, P.L., see Kanbach, G., et al. 272, 744 (97, 349)
- Nollez, G., see Coron, N., et al. 278, L31
- Nomoto, K., see Mineshige, S., et al. 267, 95
- Nomoto, K., see Yamaoka, H., et al. 267, 433
- Nomoto, K., see Shigeyama, T., et al. 272, 737 (97, 223)
- Nomoto, K., see Kumagai, S., et al. 273, 153
- Nomoto, K., see Suzuki, T., et al. 274, 883
- Norci, L., see Polcaro, V.F., et al. 272, 732 (97, 139)
- Nordh, H.L., see Harju, J., et al. 278, 569
- Nordlund, Å., see Pulkkinen, P., et al. 267, 265
- Nørgaard-Nielsen, H.U., Goudfrooij, P., Jørgensen, H.E., Hansen, L.: The extinction and star clusters in NGC 1275 279, 61
- North, P., see Hauck, B. 269, 403
- North, P., Lanz, T.: The nature of the F str $\lambda 4077$ stars. IV. Search for white dwarfs around barium dwarfs 273, 720
- Norton, A.J., see Roche, P., et al. 270, 122
- Norton, A.J., see Coe, M.J., et al. 272, 738 (97, 245)
- Norton, A.J., see Roche, P., et al. 272, 740 (97, 277)
- Nota, A., see Robberto, M., et al. 269, 330
- Nota, A., see Barbieri, C., et al. 273, 1
- Nottingham, M.R., Skinner, G.K., Willmore, A.P., Borozdin, K.N., Churazov, E., Sunyaev, R.: Observations of the Galactic centre with the TTM instrument 272, 734 (97, 165)
- Novikov, B., see Cordier, B., et al. 272, 277
- Novikov, B., see Bassani, L., et al. 272, 729 (97, 89)
- Novikov, B., see Cordier, B., et al. 275, L1
- Novikov, B., see Laurent, P., et al. 278, 444
- Nulsen, P.E.J., see Henry, J.P., et al. 271, 413
- Nussbaumer, H., see Dgani, R., et al. 267, 155
- Nussbaumer, H., see Schmid, H.M. 268, 159
- Nussbaumer, H., Walder, R.: Modification of the nebular environment in symbiotic systems due to colliding winds 278, 209
- Nyman, L.-Å., see Israel, F.P., et al. 276, 25
- Nyman, L.-Å., Olofsson, H., Johansson, L.E.B., Booth, R.S., Carlström, U., Wolstencroft, R.: A molecular radio line survey of the carbon star IRAS 15194-5115 269, 377
- Nyman, L.-Å., see Rubio, M., et al. 271, 1
- Nyman, L.-Å., Hall, P.J., Le Bertre, T.: Infrared and SiO maser observations of OH/IR stars 280, 551
- O'Brien, P.T., see Wanders, I., et al. 269, 39
- Ochsenbein, F., see Cunto, W., et al. 275, L5
- Ögelman, H., see Baykal, A. 267, 119
- Ögelman, H., see Alpar, M.A., et al. 273, L35
- Ögelman, H., see Orio, M. 273, L56
- Oestreich, M.O., see Goehermann, J., et al. 275, 356 (99, 591)
- O'Flaherty, K.S., see Akerlof, C.W., et al. 274, L17
- OGawa, H.S., see Blum, P., et al. 272, 549
- Ohishi, M., see Minh, Y.C., et al. 267, 229
- Ohnishi, K., see Hosokawa, M., et al. 278, L27
- Oja, T.: *UBV* photometry of stars whose positions are accurately known. VII. 277, 363 (100, 591)
- Oja, T., see Belskaya, I.N., et al. 279, 676 (101, 507)
- Okamoto, H., see Kozasa, T., et al. 276, 278
- Olano, C.A., see Wilson, T.L., et al. 280, 221
- Oliva, E., see Reconditi, M. 274, 662
- Oliva, E.: The O I- $\text{Ly}\beta$ fluorescence revisited and its implications on the clumping of hydrogen, O/H mixing and the pre-SN oxygen abundance in SN 1987A 276, 415
- Oliva, E., see Origlia, L., et al. 280, 536
- Olive, J.-F., Leikov, N., Akimov, V., Afanassyev, V., Barouch, E., Bazer-Bachi, R., Blochintsev, I., Buczkowska, A., Chuikin, E., Fradkin, M., Galper, A.M., Grenier, I.A., Gros, M., Grygorczuk, J., Juchniewicz, J., Lavigne, J.-M., McCulloch, P., Nesterov, V., Ozerov, Y., Rudko, V., Topchiev, N., Zemskov, V.: Observation of the Vela gamma-ray pulsar with the GAMMA-1 telescope 272, 743 (97, 325)
- Olive, J.F., Agrinier, B., Barouch, E., Comte, R., Costa, E., Cusumano, G.C., Gerardi, G., Lemoine, D., Mandrou, P., Masnou, J.L., Massaro, E., Matt, G., Mineo, T., Niel, M., Parlier, B., Sacco, B., Salvati, M., Scarsi, L.: Phase distribution of the 0.44 MeV feature in the Crab pulsar spectrum 272, 742 (97, 321)
- Olive, J.F., Agrinier, B., Barouch, E., Comte, R., Costa, E., Cusumano, G.C., Gerardi, G., Mandrou, P., Masnou, J.L., Massaro, E.,

- Matt, G., Mineo, T., Niel, M., Parlier, B., Sacco, B., Salvati, M., Scarsi, L.: Observation of the X-ray pulsar A 0535+26 with the FARGO II experiment **272**, 743 (97, 335)
- Olive, J.F., see Leikov, N.G., et al. **272**, 744 (97, 345)
- Oliver, R., Ballester, J.L., Hood, A.W., Priest, E.R.: Magnetohydrodynamic waves in a potential coronal arcade **273**, 647
- Oliver, R., see Carbonell, M., et al. **274**, 497
- Olmi, L., Cesaroni, R., Walmsley, C.M.: Ammonia and methyl cyanide in hot cores **276**, 489
- Olofsson, H., see Bergman, P., et al. **268**, 685
- Olofsson, H., see Nyman, L.-Å., et al. **269**, 377
- Olsen, E.H.: Strömgren four-colour *uvby* photometry of G5-type HD stars brighter than $m_V = 8.6$ **280**, 345 (102, 89)
- Oly, C., Israel, F.P.: Optical positions and 327 MHz flux-densities of UGC galaxies in selected Westerborg fields **276**, 327 (100, 263)
- Omout, A., Lucas, R., Morris, M., Guilloteau, S.: S-bearing molecules in O-rich circumstellar envelopes **267**, 490
- Omout, A., Loup, C., Forveille, T., te Lintel Hekkert, P., Habing, H.J., Sivagnanam, P.: Characterization and proportion of very cold C-rich circumstellar envelopes **267**, 515
- Omout, A., see Kastner, J.H., et al. **275**, 163
- Omout, A., see Loup, C., et al. **275**, 354 (99, 291)
- Oosterbroek, T., see Waters, L.B.F.M., et al. **272**, L9
- Oosterloo, T.: Angular momentum in binary spiral galaxies **272**, 389
- Oosterloo, T., Shostak, S.: H I observations of binary spiral galaxies **275**, 354 (99, 379)
- Opher, R., see dos Santos, L.C., et al. **270**, 345
- Opher, R., see Gonçalves, D.R., et al. **279**, 351
- Orellana, R.B., Vucetich, H.: The Nordtvedt effect in the Trojan asteroids **273**, 313
- Origlia, L., Moorwood, A.F.M., Oliva, E.: The 1.5–1.7 μm spectrum of cool stars: line identifications, indices for spectral classification and the stellar content of the Seyfert galaxy NGC 1068 **280**, 536
- Orio, M., Ögelman, H.: Detection of two new supersoft X-ray sources in the Large Magellanic Cloud **273**, L56
- Orio, M.: The ROSAT detection of RS Ophiuchi at quiescence **274**, L41
- Ortiz, J.L., see Castro-Tirado, A.J., et al. **276**, L37
- Ortiz, R., Lépine, J.R.D.: A model of the Galaxy for predicting star counts in the infrared **279**, 90
- Ortolani, S., Bica, E., Barbuy, B.: Blanketing effects in the very metal-rich bulge globular cluster Terzan 1 **267**, 66
- Ortolani, S., see Bica, R., et al. **270**, 117
- Ortolani, S., Bica, E., Barbuy, B.: Lyngå 7: a new disk globular cluster? **273**, 415
- Ortolani, S., see Bica, E., et al. **277**, 360
- Oserov, Y.V., see Leikov, N.G., et al. **272**, 744 (97, 345)
- Ossenkopf, V., see Preibisch, T., et al. **279**, 577
- Ossenkopf, V.: Dust coagulation in dense molecular clouds: the formation of fluffy aggregates **280**, 617
- Osterbart, R., see Fahr, H.J., et al. **274**, 612
- Ostermann, W., see Breger, M., et al. **271**, 482
- Ostrowski, M., Schlickeiser, R.: Diffusive first and second order Fermi acceleration at parallel shock waves **268**, 812
- Ott, E., see Vermeulen, R.C., et al. **270**, 204
- Ottmann, R.: Loop modeling of coronal X-ray emission from AR Lacertae **273**, 546
- Owocik, S.P., see Puls, J., et al. **279**, 457
- Ozerov, Y., see Olive, J.-F., et al. **272**, 743 (97, 325)
- Paciesas, W.S., see Fishman, G.J., et al. **272**, 725 (97, 17)
- Paciesas, W.S., see Hurley, K., et al. **272**, 726 (97, 39)
- Paciesas, W.S., see Kouveliotou, C., et al. **272**, 727 (97, 55)
- Paciesas, W.S., Harmon, B.A., Pendleton, G.N., Finger, M.H., Fishman, G.J., Meegan, C.A., Rubin, B.C., Wilson, R.B.: Studies of hard X-ray source variability using BATSE **272**, 739 (97, 253)
- Padevêt, V., Jakeš, P.: Comets and meteorites: relationship (again?) **274**, 944
- Padin, S., see Lerner, M.S., et al. **280**, 117
- Padman, R., see Minchin, N.R., et al. **277**, 595
- Padielli, L., see Spangler, S.R., et al. **267**, 213
- Padielli, L., see Bondi, M., et al. **279**, 338 (101, 431)
- Pätzold, M., Edenhofer, P., Bird, M.K., Volland, H.: The Giotto encounter with comet P/Grigg-Skjellerup: first results from the Giotto Radio-Science Experiment **268**, L13
- Pagani, L., see Robert, C. **271**, 282
- Pagani, L., see Encenaz, P.J., et al. **273**, L19
- Pagani, L., Langer, W.D., Castets, A.: First tentative detection of the molecular oxygen isotopomer $^{16}\text{O}^{18}\text{O}$ in interstellar clouds **274**, L13
- Pagani, L., Heydari-Malayeri, M., Castets, A.: The molecular cloud associated with the H II region RCW 34 **275**, 573
- Pagano, I., see Peres, G., et al. **278**, 179
- Pakull, M.W., see Vauclair, G., et al. **267**, L35
- Pakull, M.W., see Motch, C., et al. **268**, 561
- Pakull, M.W., Motch, C., Bianchi, L., Thomas, H.-C., Guibert, J., Beaulieu, J.P., Grison, P., Schaeidt, S.: Optical/UV counterpart of the supersoft transient X-ray source RX J0513.9–6951 in the Large Magellanic Cloud **278**, L39
- Palagi, F., Cesaroni, R., Comoretto, G., Felli, M., Natale, V.: Classification and statistical properties of galactic H_2O masers **279**, 681 (101, 153)
- Paleologou, E.V., see Xilouris, K.M., et al. **270**, 393
- Paleologou, E.V., see Papamastorakis, J., et al. **279**, 536
- Paletou, F., Vial, J.C., Auer, L.H.: Two-dimensional radiative transfer with partial frequency redistribution. II. Application to resonance lines in quiescent prominences **274**, 571
- Palfrey, T., see Goret, P., et al. **270**, 401
- Palla, F., Prusti, T.: Water masers associated with Herbig Ae/Be stars **272**, 249
- Palla, F., Cesaroni, R., Brand, J., Caselli, P., Comoretto, G., Felli, M.: H_2O masers associated with dense molecular clouds and ultracompact H II regions. II. The extended sample **280**, 599
- Pallavicini, R., Cutispoto, G., Randich, S., Gratton, R.: The effects of stellar surface activity on the strength of the lithium 6708 Å line **267**, 145
- Pallavicini, R., see Randich, S., et al. **273**, 194
- Palle, P., see Loudagh, S., et al. **275**, L25
- Pallé, P., see Ulrich, R.K., et al. **280**, 268
- Pallé, P.L., Fossat, E., Regulo, C., Loudagh, S., Schmider, F.X., Ehgamberdiev, S., Gelly, B., Grec, G., Khalikov, S., Lazrek, M., Sanchez, L.: Full-disk helioseismic IRIS raw data calibration **280**, 324
- Palmer, J.W., see Meaburn, J., et al. **276**, L21
- Palouš, J., Jungwiert, B., Kopecký, J.: Formation of rings in weak bars: inelastic collisions and star formation **274**, 189
- Palumbo, M.E., Strazzulla, G.: The 2140 cm^{-1} band of frozen CO: laboratory experiments and astrophysical applications **269**, 568
- Palumbo, P., see de Bernardis, P., et al. **271**, 683
- Pan, H.C., in't Zand, J.J.M., Skinner, G.K., Borozdin, K.N., Gilfanov, M.R., Sunyaev, R.: Observations of X-ray transient source GS 2023+338 with the TTM coded mask telescope **272**, 740 (97, 273)
- Pan, H.C., see Sunyaev, R.A., et al. **280**, L1
- Pan, R.S., see Zhao, J.L., et al. **276**, 327 (100, 243)
- Panagi, P.M., Mathioudakis, M.: The importance of surface inhomogeneity

- geneities for K and M dwarf chromospheric fluxes **276, 329** (100, 343)
- Panagia, N., see Shrader, C.R., et al. **272, 742** (97, 309)
- Panella, D., see Catarzi, M., et al. **273, 352** (98, 127)
- Pannunzio, R., see Bernacca, P.L., et al. **278, L47**
- Pansecchi, L., see Fulle, M., et al. **278, 634**
- Papadopoulos, D., see Kleidis, K., et al. **275, 309**
- Papaj, J., Krelowski, J., Wegner, W.: Intrinsic UV colours of OB stars **273, 575**
- Papamastorakis, J., see Xilouris, K.M., et al. **270, 393**
- Papamastorakis, J., Xilouris, K.M., Paleologou, E.V.: Morphological study of the extended halo around the Dumbbell Nebula (NGC 6853) **279, 536**
- Paparó, M., Pena, J., Peniche, R., İbanoğlu, C., Tunca, Z., Evren, S.: FM Comae (= HR 4684) revisited **268, 123**
- Paparo, M., see Breger, M., et al. **271, 482**
- Papoular, R., Breton, J., Gensterblum, G., Nenner, I., Papoular, R.J., Pireaux, J.-J.: The vis/UV spectrum of coals and the interstellar extinction curve **270, L5**
- Papoular, R.J., see Papoular, R., et al. **270, L5**
- Papoušek, J., see Chochol, D., et al. **277, 103**
- Pâquet, P., see Djurovic, D. **277, 669**
- Pardi, M.C., see Campana, S. **277, 477**
- Paredes, J.M., see Estalella, R., et al. **268, 178**
- Paredes, J.M., see Massi, M., et al. **269, 249**
- Paredes, J.M., Martí, J., Jordi, C., Trullols, E., Peracaula, M.: Optical counterpart of galactic plane variable radio sources **280, 347** (102, 381)
- Paredes, S., see Martínez, V.J., et al. **280, 5**
- Paresce, F., see Robberto, M., et al. **269, 330**
- Paresce, F., see Barbieri, C., et al. **273, 1**
- Paresce, F., see Robberto, M., et al. **280, 241**
- Parijskij, Y.N., Bursov, N.N., Lipovka, N.M., Soboleva, N.S., Temirova, A.V.: The RATAN-600 7.6 cm catalogue of radio sources from "Experiment Cold-80" **273, 356** (98, 391)
- Parijskij, Y.N., Bursov, N.N., Lipovka, N.M., Soboleva, N.S., Temirova, A.V., Chepurnov, A.V.: *Erratum*: The RATAN-600 7.6 cm catalogue of radio sources within the interval 22^h-4^h at declination of SS 433 **273, 356** (98, 391)
- Park, M.-G.: Relativistic theory of radiative transfer: time-dependent radiation moment equations **274, 642**
- Parlier, B., see Olive, J.F., et al. **272, 742** (97, 321)
- Parlier, B., see Olive, J.F., et al. **272, 743** (97, 335)
- Parma, P., Morganti, R., Capetti, A., Fanti, R., de Ruiter, H.R.: Polarization properties at 1.4 GHz of low luminosity radio galaxies **267, 31**
- Parma, P., see Capetti, A., et al. **275, 354** (99, 407)
- Parma, P., see Bondi, M., et al. **279, 338** (101, 431)
- Parmar, A.N., Israel, G.L., Stella, L., White, N.E.: The X-ray time variability and spectrum of γ Cassiopeiae (X 0053+604) **275, 227**
- Parmar, A.N., Angelini, L., Roche, P., White, N.E.: The discovery and properties of the ultra-soft X-ray transient EXO 1846-031 **279, 179**
- Parmeggiani, G., see Bendinelli, O., et al. **279, 668**
- Parra, F., see Sánchez, M., et al. **280, 333**
- Parrao, L., see Schuster, W.J., et al. **272, 755** (97, 951)
- Parthasarathy, M., Garcia-Lario, P., Pottasch, S.R., Machado, A., Clavel, J., de Martino, D., Van de Steene, G.C.M., Sahu, K.C.: SAO 244567: a post-AGB star which has turned into a planetary nebula within the last 40 years **267, L19**
- Pasian, F., see Fulle, M., et al. **276, 582**
- Pasinetti Fracassini, L.E., see Covino, S. **270, 83**
- Pasquali, A., Perinotto, M.: Chemical behaviour of planetary nebulae and galactic abundance gradients **280, 581**
- Pásztor, L., Tóth, L.V., Balázs, L.G.: Searching for embedded clusters in the Cepheus-Cassiopeia region **268, 108**
- Patat, F., Barbon, R., Cappellaro, E., Turatto, M.: Light curves of type II Supernovae. I. The atlas **274, 1011** (98, 443)
- Patat, F., see Munari, U. **277, 195**
- Pati, A., see Gopal-Krishna, et al. **280, 360**
- Paturel, G., see Garcia, A.M., et al. **272, 753** (97, 801)
- Paturel, G., see Garcia, A.M., et al. **273, 350** (98, 7)
- Paturel, G., see Bottinelli, L., et al. **280, 344** (102, 57)
- Paubert, G., see Crovisier, J., et al. **269, 527**
- Paubert, G., see Steppe, H., et al. **280, 350** (102, 611)
- Paul, J., see Cordier, B., et al. **272, 277**
- Paul, J., see Mandrou, P., et al. **272, 724** (97, 1)
- Paul, J., see Sunyaev, R., et al. **272, 729** (97, 85)
- Paul, J., see Bassani, L., et al. **272, 729** (97, 89)
- Paul, J., see Cordier, B., et al. **272, 734** (97, 177)
- Paul, J., see Mirabel, I.F., et al. **272, 735** (97, 193)
- Paul, J., see Goldwurm, A., et al. **272, 741** (97, 293)
- Paul, J., see Gilfanov, M., et al. **272, 741** (97, 303)
- Paul, J., see Cordier, B., et al. **275, L1**
- Paul, J., see Laurent, P., et al. **278, 444**
- Paul, J.F., see Loup, C., et al. **275, 354** (99, 291)
- Pauldrach, A.W., see Hillier, D.J., et al. **276, 117**
- Paulus, G., see Boffin, H.M.J., et al. **271, 125**
- Paulus, G., see Boffin, H.M.J., et al. **279, 173**
- Pauzat, F., see Talbi, D., et al. **268, 805**
- Pavlenko, E.P., see Castro-Tirado, A.J., et al. **276, L37**
- Pavlovsky, M., see Grebenev, S., et al. **272, 740** (97, 281)
- Pavlovsky, M., see Gilfanov, M., et al. **272, 741** (97, 303)
- Pavlovski, K., see Schneider, H., et al. **277, 480**
- Pearson, T.J., see Venturi, T., et al. **271, 65**
- Pehl, R., see Feffer, P.T., et al. **272, 726** (97, 31)
- Pehl, R., see Smith, D.M., et al. **272, 736** (97, 199)
- Pelaez, F., see Sunyaev, R., et al. **272, 729** (97, 85)
- Pelaez, F., see Grebenev, S., et al. **272, 740** (97, 281)
- Peletier, R.F., see Hes, R. **268, 539**
- Peletier, R.F.: The stellar content of elliptical galaxies: optical and infrared colour profiles of M 32 and NGC 205 **271, 51**
- Peletier, R.F., see Siebenmorgen, R. **279, L45**
- Pelletier, G., see Lehoucq, R., et al. **268, 93**
- Pelletier, G., see Rosso, F. **270, 416**
- Pelletier, G., see Ferreira, J. **276, 625**
- Pelletier, G., see Ferreira, J. **276, 637**
- Pelling, M., see Durouchoux, P., et al. **272, 735** (97, 185)
- Pelling, R.M., see Feffer, P.T., et al. **272, 726** (97, 31)
- Pelling, R.M., see Smith, D.M., et al. **272, 736** (97, 199)
- Pelt, J., see Schramm, K.-J., et al. **278, 391**
- Pelt, J., see Jetsu, L., et al. **278, 449**
- Peltoniemi, J.I., see Jämsä, S., et al. **271, 319**
- Pena, J., see Paparó, M., et al. **268, 123**
- Pendleton, G.N., see Fishman, G.J., et al. **272, 725** (97, 17)
- Pendleton, G.N., see Paciesas, W.S., et al. **272, 739** (97, 253)
- Peniche, R., see Paparó, M., et al. **268, 123**
- Penninx, W., Zwarthoed, G.A.A., van Paradijs, J., van der Klis, M., Lewin, W.H.G., Dotani, T.: The radio counterpart of the Z source GX 340+0 **267, 92**
- Penninx, W., see Zwarthoed, G.A.A., et al. **267, 101**
- Penston, M.J., see de Vegt, C., et al. **272, 755** (97, 985)
- Penston, M.V., see Wanders, I., et al. **269, 39**
- Pentland, G., see Aspin, C., et al. **278, 255**
- Peñalver, J., see Krichbaum, T.P., et al. **275, 375**
- Péquignot, D., Petitjean, P., Boisson, C., Krautter, J.: The optical spectrum of Nova GQ Muscae 1983 from 1984 to 1988 **271, 219**

- Peracaula, M., see Estalella, R., et al. **268**, 178
- Peracaula, M., see Paredes, J.M., et al. **280**, 347 (**102**, 381)
- Percy, J.R., see Roche, P., et al. **270**, 122
- Perea, J., see Wanders, I., et al. **269**, 39
- Peres, G., Reale, F.: The importance of plasma viscosity on X-ray line diagnostics of solar flares **267**, 566
- Peres, G., see Reale, F., et al. **272**, 486
- Peres, G., Reale, F.: Detectability of chromospheric evaporation fronts in solar flares **275**, L13
- Peres, G., Ventura, R., Pagano, I., Rodonò, M.: Low amplitude variability and transient periodicity in FF Andromedae and other active stars **278**, 179
- Pérez, E., see Wanders, I., et al. **269**, 39
- Pérez, M.R., see Thé, P.S., et al. **269**, 181
- Pérez, M.R., Grady, C.A., Thé, P.S.: UV spectral variability in the Herbig Ae star HR 5999. XI. The accretion interpretation **274**, 381
- Pérez, M.R., see Grady, C.A., et al. **274**, 847
- Pérez-Fournon, I., see Wanders, I., et al. **269**, 39
- Perinotto, M., see Pasquali, A. **280**, 581
- Perley, R.A., see Conway, R.G., et al. **267**, 347
- Perola, G.C., see Matt, G., et al. **267**, 643
- Perola, G.C., see Massaro, E., et al. **272**, 747 (**97**, 399)
- Perozzi, E., see Valsecchi, G.B., et al. **271**, 308
- Perrier, C., see Lopez, B., et al. **270**, 462
- Perrin, G., see Lecavelier des Etangs, A., et al. **274**, 877
- Perrin, J.-M., Sivan, J.-P.: VHE 65a: an extremely red reflection nebula **268**, 276
- Perry, C.L., see Hill, G., et al. **279**, 677 (**101**, 579)
- Perry, J.J., see Wanders, I., et al. **269**, 39
- Perryman, M.A.C., see Fridlund, C.V.M., et al. **273**, 601
- Persi, P., see Bohigas, J., et al. **267**, 168
- Persi, P., see Telting, J.H., et al. **270**, 355
- Persi, P., see Polcaro, V.F., et al. **272**, 732 (**97**, 139)
- Persic, M., Salucci, P., Ashman, K.M.: Dark matter in spiral galaxies and the Arimoto-Jablonka photometric model **279**, 343
- Pešek, I.: Optical positions of selected radio stars from circumzenithal observations **272**, 752 (**97**, 777)
- Pešek, I., Vondrák, J., Chollet, F., Noël, F.: Systematic deformations of the apparent almucantar as derived from Danjon astrolabes in Paris and Santiago de Chile **274**, 621
- Petersen, J.O.: Studies of Cepheid-type variability. XI. Are some BL Herculis variables overtone pulsators? **272**, 217
- Peterson, L., see Durouchoux, P., et al. **272**, 735 (**97**, 185)
- Peterson, L.E., see Smith, D.M., et al. **272**, 736 (**97**, 199)
- Petit, C., see Bottinelli, L., et al. **280**, 344 (**102**, 57)
- Petit, H., see Courtès, G., et al. **268**, 419
- Petitjean, P., see Péquignot, D., et al. **271**, 219
- Petitjean, P., see Wampler, E.J., et al. **273**, 15
- Petitjean, P., see Durret, F., et al. **273**, 355 (**98**, 365)
- Petitjean, P., Durret, F.: A detailed analysis of the extended ionized nebulosity surrounding NGC 4388 **277**, 365
- Petre, R., see Pietsch, W., et al. **273**, L11
- Petrie, S., Javahery, G., Bohme, D.K.: Experimental results for ion-molecule reactions of fullerenes: implications for interstellar and circumstellar chemistry **271**, 662
- Petrini, D., de Araújo, F.X.: Innershell photoionization in the Be sequence: shake-up processes **271**, 679
- Petrosian, A.R., Burenkov, A.N.: A study of the unusual starburst galaxy Markarian 603 (=NGC 1222) **279**, 21
- Petrov, P., see Catala, C., et al. **275**, 245
- Petrovay, K., Szakály, G.: The origin of intranetwork fields: a small-scale solar dynamo **274**, 543
- Petters, A.O., see Levine, H.I. **272**, L17
- Pettersson, B., see Reipurth, B. **267**, 439
- Pevtsov, A.A., see Mashnich, G.P., et al. **269**, 503
- Pevtsov, A.A., see Druzhinin, S.A. **272**, 378
- Pevtsov, A.A., see Druzhinin, S.A., et al. **277**, 242
- Pfau, W., see Henning, T., et al. **276**, 129
- Pfeiffer, B., see Vauclair, G., et al. **267**, L35
- Pfenniger, D., Friedli, D.: Computational issues connected with 3D N-body simulations **270**, 573
- Phillipps, S.: Large-scale inhomogeneities and galaxy number counts **275**, 357
- Phillipps, S., see Boyce, P.J., et al. **280**, 694
- Phillips, J.P., see Cuesta, L., et al. **267**, 199
- Phillips, J.P., see Cuesta, L. **270**, 379
- Phillips, T.G., see Hauschildt, H., et al. **273**, L23
- Phillips, T.G., see van Dishoeck, E.F., et al. **279**, 541
- Picard, A., Jakobsen, P.: Crossing the Lyman valley: how many UV-bright high redshift quasars are there? **276**, 331
- Pick, M., see Chupp, E.L., et al. **275**, 602
- Pickup, D.A., see Aspin, C., et al. **278**, 255
- Piehler, G., see Kegel, W.H., et al. **270**, 407
- Piersimoni, A.M., see Burchi, R., et al. **272**, 753 (**97**, 827)
- Piersimoni, A.M., Di Paolantonio, A., Burchi, R., De Santis, R.: Photoelectric photometry of field variables. II **279**, 681 (**101**, 195)
- Pietsch, W., see Kunz, M., et al. **268**, 116
- Pietsch, W., see Belloni, T., et al. **271**, 487
- Pietsch, W., see Magnier, E.A., et al. **272**, 695
- Pietsch, W., Haberb, F., Gehrels, N., Petre, R.: A ROSAT observation of the black hole candidate GRO J0422+32 **273**, L11
- Pietsch, W., see Magnier, E.A., et al. **278**, 36
- Pietsch, W., see Sunyaev, R.A., et al. **280**, L1
- Pignatelli, E., see Bertin, G., et al. **271**, 381
- Pigulski, A., see Sterken, C., et al. **273**, 355 (**98**, 383)
- Pigulski, A.: The light-time effect as the cause of period changes in β Cephei stars. III. BW Vulpeculae **274**, 269
- Pirola, V., see Scaltriti, F., et al. **280**, 347 (**102**, 343)
- Pijpers, F.P.: Radial pulsation in variable stars with mass loss **267**, 471
- Pilyugin, L.S.: On the evolution of helium, nitrogen and oxygen abundances in dwarf irregular galaxies **277**, 42
- Pineau des Forêts, G., see Puy, D., et al. **267**, 337
- Pineau des Forêts, G., see Le Boulrot, J., et al. **267**, 233
- Pinkau, K., see Fichtel, C.E., et al. **272**, 725 (**97**, 13)
- Pinkau, K., see von Montigny, C., et al. **272**, 730 (**97**, 101)
- Pinkau, K., see Kanbach, G., et al. **272**, 744 (**97**, 349)
- Piotto, G., see Zaggia, S.R., et al. **278**, 415
- Pipin, V.V., see Kichatinov, L.L. **274**, 647
- Pireaux, J.-J., see Papoular, R., et al. **270**, L5
- Pirenne, B., see Magain, P., et al. **272**, 383
- Piro, L., see Massaro, E., et al. **272**, 747 (**97**, 399)
- Pirre, M., see Léger, A., et al. **277**, 309
- Piskunov, N.E., see Vincent, A., et al. **278**, 523
- Piters, A.J.M., see Schmitt, J.H.M.M., et al. **277**, 114
- Pivalica, S., see Puric, J., et al. **280**, 349 (**102**, 607)
- Pizzichini, G., see Boër, M., et al. **277**, 503
- Pizzo, V.J., see Bunte, M., et al. **268**, 299
- Plambeck, R.L., see Lerner, M.S., et al. **280**, 117
- Planinić, M., see Schneider, H., et al. **277**, 480
- Plunkett, S., see McBreen, B., et al. **272**, 729 (**97**, 81)
- Pöppel, W.G.L., see Silva, A.M., et al. **275**, 510
- Pohl, M., see Neubauer, F.M., et al. **268**, L5
- Pohl, M.: On the predictive power of the minimum energy condition. I. Isotropic steady-state configurations **270**, 91

- Pohl, M., see Reich, W., et al. 273, 65
Pohl, M., see Reuter, H.P., et al. 277, 21
Pohl, M.: Magnetic fields and the cosmic ray e/p ratio. Clues from gamma-ray observations of the Magellanic Clouds 279, L17
Polcaro, V.F., Brinkmann, W., Giovannelli, F., Manchanda, R.K., Norci, L., Persi, P., Rossi, C.: High energy gamma-ray emission from open clusters 272, 732 (97, 139)
Polcaro, V.F., Villada, M., Giovannelli, F.: Optical spectra of He 3–640 (A 1118–61) after the January 1992 X-ray outburst 273, L49
Polcaro, V.F., Viotti, R.: A forgotten episode of the η Carinae light curve in 1860–1865 274, 807
Polcaro, V.F., see Viotti, R., et al. 276, 432
Pollard, M., see Smith, D.M., et al. 272, 736 (97, 199)
Pols, O.R., see Schrijver, C.J. 278, 51
Popescu, C.C., see Binggeli, B., et al. 273, 354 (98, 275)
Popov, D.V., see Blinnikov, S.I. 274, 775
Popović, L.Č., see Dimitrijević, M.S. 279, 677 (101, 583)
Popović, L.Č., Vince, I., Dimitrijević, M.S.: Stark broadening of Zn II and Cd II spectral lines of astrophysical interest 280, 343 (102, 17)
Porco, C.C., see Hubbard, W.B., et al. 269, 541
Poretti, E., Zerbi, F.: Spurious effects in the presence of a variable extinction coefficient in photoelectric photometry 268, 369
Poretti, E., see Mantegazza, L. 274, 811
Porro, I., Silvestro, G.: Low-mass protostellar condensations in magnetized molecular clouds 275, 563
Portegies Zwart, S.F., Meinen, A.T.: Quick method for calculating energy dissipation in tidal interaction 280, 174
Portilla, M., see Martínez, V.J., et al. 280, 5
Porzio, V., see Giovannelli, F., et al. 272, 747 (97, 395)
Pottasch, S.R., see García-Lario, P., et al. 267, L11
Pottasch, S.R., see Parthasarathy, M., et al. 267, L19
Pottasch, S.R., see Anandarao, B.G., et al. 273, 570
Pottasch, S.R., see Van de Steene, G.C.M. 274, 895
Pottasch, S.R., see Walton, N.A., et al. 275, 256
Poutanen, J., see Nagirner, D.I. 275, 325
Poutanen, J., Vilhu, O.: Compton scattering of polarized light in two-phase accretion discs 275, 337
Pradhan, A.K., see Hummer, D.G., et al. 279, 298
Prantzos, N.: On the diffuse galactic emission at 511 keV and 1809 keV 272, 731 (97, 119)
Preibisch, T., Zinnecker, H., Schmitt, J.H.M.M.: ROSAT-detection of a giant X-ray flare on LkH α 92 279, L33
Preibisch, T., Ossenkopf, V., Yorke, H.W., Henning, T.: The influence of ice-coated grains on protostellar spectra 279, 577
Preston, R.A., see Alberdi, A., et al. 277, L1
Priest, E.R., see Lima, J.J.G. 268, 641
Priest, E.R., see Oliver, R., et al. 273, 647
Priest, E.R., see Tsinganos, K., et al. 275, 613
Priest, E.R., see Titov, V.S., et al. 276, 564
Prieto, C., see Docobo, J.A. 277, 364 (100, 641)
Prieto, M., see Campos-Aguilar, A., et al. 276, 16
Primbsch, J.H., see Feffer, P.T., et al. 272, 726 (97, 31)
Proust, D., see Tresse, L., et al. 277, 53
Proust, D., see Fouqué, P., et al. 277, 361 (100, 493)
Proust, D., see Boisson, C., et al. 277, 363 (100, 583)
Provost, J., see Berthomieu, G., et al. 268, 775
Provost, J., Mosser, B., Berthomieu, G.: A new asymptotic formalism for Jovian seismology 274, 595
Provost, J., see Loudagh, S., et al. 275, L25
Prugniel, P., Bica, E., Klotz, A., Alloin, D.: Low-luminosity early-type galaxies. I. Photometry and morphology 273, 353 (98, 229)
Prusti, T., see Kun, M. 272, 235
Prusti, T., see Palla, F. 272, 249
Prusti, T., see Natta, A., et al. 275, 527
Prusti, T., see Henning, T., et al. 276, 129
Prusti, T., Bontekoe, T.R., Chiar, J.E., Kester, D.J.M., Whittet, D.C.B.: Infrared photometry of the young stellar objects V 346 Normae and Re 13 279, 163
Przewodnik, A., see Wilson, T.L., et al. 280, 221
Ptuskin, V.S., see Bloemen, J.B.G.M., et al. 267, 372
Ptuskin, V.S., Rogovaya, S.I., Zirakashvili, V.N., Chuvilgin, L.G., Khristiansen, G.B., Klepach, E.G., Kulikov, G.V.: Diffusion and drift of very high energy cosmic rays in galactic magnetic fields 268, 726
Ptuskin, V.S., see Chuvilgin, L.G. 279, 278
Püttmann, M., see Sterken, C., et al. 280, 344 (102, 79)
Puget, J.L., see Bernard, J.P., et al. 277, 609
Pulkkinen, P., Tuominen, I., Brandenburg, A., Nordlund, Å., Stein, R.F.: Rotational effects on convection simulated at different latitudes 267, 265
Pulone, L., see Caputo, F., et al. 276, 41
Puls, J., see Sellmaier, F., et al. 273, 533
Puls, J., see Hillier, D.J., et al. 276, 117
Puls, J., Owocki, S.P., Fullerton, A.W.: On the synthesis of resonance lines in dynamical models of structured hot-star winds 279, 457
Punch, M., see Akerlof, C.W., et al. 274, L17
Purcell, W.R., see Johnson, W.N., et al. 272, 725 (97, 21)
Purić, J., Djeniže, S., Srećković, A., Bukvić, S., Pivalica, S., Labat, J.: Stark widths of singly-ionized iron spectral lines 280, 349 (102, 607)
Puy, D., Alecian, G., Le Bourlot, J., Léorat, J., Pineau des Forêts, G.: Formation of primordial molecules and thermal balance in the early Universe 267, 337
Pyper, D.M., see Adelman, S.J. 279, 337 (101, 393)
Qingyao Liu, Yulan Yang, Chenghong Gu, Bi Wang: New BV light curves and photometric solutions for the contact binary SS Arietis 279, 336 (101, 253)
Qingyao Liu: Four-colour photometric study of the short-period eclipsing binary V Crateris 279, 679 (101, 49)
Qiuhe Peng, see Zigao Dai, et al. 272, 705
Quarta, M.L., see Caputo, F., et al. 276, 41
Quémerais, E., Bertaux, J.-L.: Radiative transfer in the interplanetary medium at Lyman alpha 277, 283
Quericioli, F., see Greco, V., et al. 277, 345
Quin, D.A., Doyle, J.G., Butler, C.J., Byrne, P.B., Swank, J.H.: Rotational modulation and flares on RS Canum Venaticorum and BY Draconis stars. XVII. UV spectroscopy and optical photometry of AU Microscopii in 1986 272, 477
Quinet, P., see Biémont, E., et al. 280, 348 (102, 435)
Quiniento, Z.M., Cersosimo, J.C.: Radio spectra of quasars. III 272, 748 (97, 435)
Quintana, H., see Fouqué, P., et al. 277, 361 (100, 493)
Quintana, H., de Souza, R.: Spectroscopic observations of the galaxy cluster A 3571 (SC 1344–325) 279, 675 (101, 475)
Quirrenbach, A., see Wagner, S.J., et al. 271, 344
Rabl, G.K.F.: Recursive solution to Wiener's multi-channel time filtering 270, 552
Rachen, J.P., Biermann, P.L.: Extragalactic ultra-high energy cosmic rays. I. Contribution from hot spots in FR-II radio galaxies 272, 161
Rachen, J.P., Stanev, T., Biermann, P.L.: Extragalactic ultra-high energy cosmic rays. II. Comparison with experimental data 273, 377

- Radford, S.J.E., Brown, R.L., Vanden Bout, P.A.: Distribution of molecular gas in the primeval galaxy IRAS F 10214+4724 **271**, L21
- Radocinski, R.G., see Mahoney, W.A., et al. **272**, 746 (**97**, 385)
- Rafanelli, P., see Barbieri, C., et al. **273**, 1
- Rafanelli, P., Marziani, P., Birkle, K., Thiele, U.: The merging Seyfert galaxies Mkn 423 and Mkn 739 **275**, 451
- Rafferty, T.J., Loader, B.R.: Improvements in the use of daytime star observations from a transit circle **271**, 727
- Raga, A., Cabrit, S.: Molecular outflows entrained by jet bowshocks **278**, 267
- Raga, A.C., see Meaburn, J., et al. **276**, L21
- Raga, A.C., Cantó, J., Calvet, N., Rodríguez, L.F., Torrelles, J.M.: A unified stellar jet/molecular outflow model **276**, 539
- Raison, F., see Hameury, J.-M., et al. **277**, 81
- Raiteri, C.M., see Matteucci, F., et al. **272**, 421
- Rakhimov, V.Y., see Aslanov, A.A., et al. **270**, 200
- Ramanamurthy, P.V., see Vishwanath, P.R., et al. **267**, L5
- Ramaty, R., Lingefelter, R.E.: Diffuse Galactic annihilation radiation **272**, 732 (**97**, 127)
- Ramaty, R., see Skibo, J.G. **272**, 733 (**97**, 145)
- Ramirez, A., see Fouqué, P., et al. **277**, 361 (**100**, 493)
- Ramírez, S., see Garay, G., et al. **274**, 743
- Rampazzo, R., see Banfi, M., et al. **280**, 373
- Ramsay, S.K., see Aspin, C., et al. **278**, 255
- Rana, N.C., see Sen, A.K. **275**, 298
- Randich, S., see Pallavicini, R., et al. **267**, 145
- Randich, S., Gratton, R., Pallavicini, R.: Lithium in RS CVn binaries and related chromospherically active stars. II. Spectrum synthesis analysis **273**, 194
- Rangarajan, K.E., see Mohan Rao, D. **274**, 993
- Rantakyö, F.T., see Lerner, M.S., et al. **280**, 117
- Rao, A.R., see Chitnis, V.R., et al. **268**, 609
- Rao, N.K., Raveendran, A.V.: *UBVR* polarimetry of the peculiar R CrB star V 854 Centauri **274**, 330
- Rao, N.K., Giridhar, S., Lambert, D.L.: The hot R Coronae Borealis star DY Centauri: nebular and photospheric lines **280**, 201
- Rapaport, M., Ducourant, C., Colin, J., Le Campion, J.F.: Iterative methods used in overlap astrometric reduction techniques do not always converge **271**, 645
- Ratering, C., Bruch, A., Diaz, M.: A spectroscopic study of the Z Camelopardalis type dwarf nova KT Persei **268**, 694
- Rauch, T.: NLTE analysis of subluminescent O stars: the hot subdwarf in the binary system HD 128220 **276**, 171
- Rauzy, S., Lachièze-Rey, M., Henriksen, R.N.: Wavelet analysis of cosmic velocity fields **273**, 357
- Raveendran, A.V., see Rao, N.K. **274**, 330
- Raveendran, A.V., see Mohin, S. **276**, 329 (**100**, 331)
- Raveendran, A.V., see Mohin, S. **277**, 155
- Ray, T.P., see Corcoran, D., et al. **279**, 206
- Readhead, A.C.S., see Alberdi, A., et al. **271**, 93
- Reale, F., see Peres, G. **267**, 566
- Reale, F., see Sylwester, B., et al. **267**, 586
- Reale, F., Serio, S., Peres, G.: Dynamics of the decay of confined stellar X-ray flares **272**, 486
- Reale, F., see Peres, G. **275**, L13
- Rebeiro, R., Azzopardi, M., Westerlund, B.E.: Carbon stars in the Small Magellanic Cloud. II. Catalogue of 1707 objects with identifications and spectrophotometry **272**, 751 (**97**, 603)
- Rebolo, R., see Abia, C., et al. **272**, 455
- Rebolo, R., see García López, R.J., et al. **273**, 482
- Rebolo, R., see McKeith, C.D., et al. **273**, 331
- Rebolo, R., see Martín, E.L. **274**, 274
- Rebolo, R., see Char, S., et al. **276**, 78
- Rebolo, R., see Boffin, H.M.J., et al. **280**, 347 (**102**, 361)
- Reconditi, M., Oliva, E.: Accurate wavelengths of near-infrared coronal lines from spectroscopic measurements of NGC 6302 **274**, 662
- Redfors, A., Cowley, C.R.: Elemental abundances of yttrium and zirconium in the mercury-manganese stars ϕ Herculis, κ Cancris and ι Coronae Borealis **271**, 273
- Rees, D.E., see Semel, M., et al. **278**, 231
- Reeves, H.: The Li^6/Li ratio and the stellar yield of ^7Li **269**, 166
- Refsdal, S., see Witt, H.J., et al. **268**, 501
- Refsdal, S., see Schramm, T., et al. **268**, 350
- Refsdal, S., Stabell, R.: Gravitational microlensing variability caused by small masses **278**, L5
- Reglero, V., see Roche, P., et al. **270**, 122
- Reglero, V., see Coe, M.J., et al. **272**, 738 (**97**, 245)
- Reglero, V., see Roche, P., et al. **272**, 740 (**97**, 277)
- Reglero, V., see Sanchez, F., et al. **272**, 747 (**97**, 401)
- Regulo, C., see Loudagh, S., et al. **275**, L25
- Regulo, C., see Ulrich, R.K., et al. **280**, 268
- Regulo, C., see Pallé, P.L., et al. **280**, 324
- Reich, P., see Reich, W., et al. **273**, 65
- Reich, W., Steppe, H., Schlickeiser, R., Reich, P., Pohl, M., Reuter, H.P., Kanbach, G., Schönfelder, V.: The radio state of extragalactic γ -ray sources detected by CGRO **273**, 65
- Reich, W., see Fürst, E., et al. **276**, 470
- Reid, A.H.N., Aerts, C.: Limits on mode identifications in rotating, non-radially pulsating stars **279**, L25
- Reid, A.H.N., see Howarth, I.D. **279**, 148
- Reimann, H.-G., see Friedemann, C., et al. **277**, 184
- Reimers, D., see Vogel, S., et al. **273**, 353 (**98**, 193)
- Reimers, D., see Vogel, S. **274**, L5
- Reimers, D., see Thiering, I. **274**, 838
- Reimers, D., see Koester, D. **275**, 479
- Reimers, D., Vogel, S.: He I absorption lines in high-redshift Lyman limit systems of the QSO HS 1700+6416 **276**, L13
- Reimers, D., see Hünsel, M. **276**, 161
- Reimers, D., see Wisotzki, L., et al. **278**, L15
- Reinheimer, T., Hofmann, K.-H., Weigelt, G.: Interferometric imaging with arrays of large optical telescopes in the multi-speckle mode **279**, 322
- Reinsch, K., see Schwöpe, A.D., et al. **267**, 103
- Reipurth, B., Pettersson, B.: Star formation in Bok globules and low-mass clouds. V. H α emission stars near Sa 101, CG 13 and CG 22 **267**, 439
- Reipurth, B., see Chini, R., et al. **272**, L5
- Reipurth, B., Chini, R., Krügel, E., Kreysa, E., Sievers, A.: Cold dust around Herbig-Haro energy sources: a 1300 μm survey **273**, 221
- Reipurth, B., Zinnecker, H.: Visual binaries among pre-main sequence stars **278**, 81
- Reitsema, H.J., see Hubbard, W.B., et al. **269**, 541
- Remy, M., Surdej, J., Smette, A., Claeskens, J.-F.: Optical imaging of the gravitational lens system B 1422+231 **278**, L19
- Remy, S., see Lagage, P.O., et al. **275**, 345
- Renard, M., Chièze, J.P.: The fragmentation of molecular clouds: critical (Jeans) mass in the vicinity of thermal instability and influence of visible extinction variations **267**, 549
- Renson, P., see Catalano, F.A., et al. **273**, 354 (**98**, 269)
- Reppin, C., see Kunz, M., et al. **268**, 116
- Réquiem, Y., see Benevides-Soares, P., et al. **278**, 293
- Reshetnikov, V.P., Hagen-Thorn, V.A., Yakovleva, V.A.: A photometric study of interacting galaxies. I. Observations **275**, 353 (**99**, 257)

- Reshetnikov, V.P., Hagen-Thorn, V.A., Yakovleva, V.A.: A photometric study of interacting galaxies. II. Analysis of the results **278**, 351
- Reshetnikov, V.P.: A photometric and kinematic study of the interacting pair NGC 5953/54 **280**, 400
- Restaino, S.R., see Bertello, L. **273**, 260
- Reuter, H.P., see Reich, W., et al. **273**, 65
- Reuter, H.P., Pohl, M., Lesch, H., Sievers, A.W.: High resolution CO observations of NGC 1275 **277**, 21
- Reuter, H.P., see Steppe, H., et al. **280**, 350 (**102**, 611)
- Reynolds, A., see Roche, P., et al. **270**, 122
- Reynolds, P.T., see Akerlof, C.W., et al. **274**, L17
- Ribes, J.C., Nesme-Ribes, E.: The solar sunspot cycle in the Maunder minimum AD 1645 to AD 1715 **276**, 549
- Rice, J.B., see Strassmeier, K.G., et al. **268**, 671
- Richmond, M.W., see Tyson, N.D., et al. **275**, 630
- Richter, G.M., see Lorenz, H., et al. **277**, L15
- Richter, G.M., see Lorenz, H., et al. **277**, 321
- Rickard, G.J., see Craig, I.J.D., et al. **267**, L39
- Ridgway, S.T., see Haas, M., et al. **269**, 282
- Ridgway, S.T., see Leinert, C., et al. **278**, 129
- Riedel, E., see Hubbard, W.B., et al. **269**, 541
- Rieger, E., see Chupp, E.L., et al. **275**, 602
- Rigaut, F., see Malbet, F., et al. **271**, L9
- Righini, A., see Greco, V., et al. **277**, 345
- Ritter, H., see de Kool, M. **267**, 397
- Rius, A., see Estalella, R., et al. **268**, 178
- Rizk, F., see Hubbard, W.B., et al. **269**, 541
- Robbe, S., see Cruzalèbes, P., et al. **272**, 709
- Robberto, M., Ferrari, A., Nota, A., Paresce, F.: Evidence for a yellow-supergiant phase of AG Carinae **269**, 330
- Robberto, M., Clampin, M., Ligori, S., Paresce, F., Staude, H.J.: High-resolution imaging of NGC 7027 **280**, 241
- Robert, C., Pagani, L.: Fitting a clumpy cloud model to observations of CO and ^{13}CO transitions **271**, 282
- Roberts, B., see Murawski, K. **272**, 595
- Roberts, B., see Murawski, K. **272**, 601
- Roberts, B., see Joarder, P.S. **273**, 642
- Roberts, B., see Joarder, P.S. **277**, 225
- Roberts, D.A., Goss, W.M., Kalberla, P.M.W., Herbstmeier, U., Schwarz, U.J.: High resolution H I observations of 3C 58 **274**, 427
- Robertson, D., see Aspin, C., et al. **278**, 255
- Robinson, A., see Wanders, I., et al. **269**, 39
- Robson, M., Yassin, G., Woan, G., Wilson, D.M.A., Scott, P.F., Lasenby, A.N., Kenderdine, S., Duffett-Smith, P.J.: The cosmic anisotropy telescope **277**, 314
- Roca Cortés, T., see Ulrich, R.K., et al. **280**, 268
- Roche, P., Coe, M.J., Fabregat, J., McHardy, I.M., Norton, A.J., Percy, J.R., Reglero, V., Reynolds, A., Unger, S.J.: Recent phase changes in X Persei: optical, infrared and X-ray behaviour **270**, 122
- Roche, P., see Coe, M.J., et al. **272**, 738 (**97**, 245)
- Roche, P., Coe, M.J., Everall, C., Fabregat, J., Norton, A.J., Reglero, V., Unger, S.J.: Multi-wavelength observations of phase changes in X Persei **272**, 740 (**97**, 277)
- Roche, P., see Parmar, A.N., et al. **279**, 179
- Rodonò, M., see Umana, G., et al. **267**, 126
- Rodonò, M., see Lanza, A.F., et al. **269**, 351
- Rodonò, M., see Houdebine, E.R., et al. **274**, 245
- Rodonò, M., see Houdebine, E.R., et al. **278**, 109
- Rodonò, M., see Peres, G., et al. **278**, 179
- Rodríguez, E., Rolland, A., López de Coca, P., Garrido, R., Mendoza, E.E.: Simultaneous *uvby* photometry of 28 Andromedae **273**, 473
- Rodríguez, E., Rolland, A., López de Coca, P.: Simultaneous *uvby* photometry of SX Phoenicis stars **277**, 363 (**100**, 571)
- Rodríguez, E., Rolland, A., López de Coca, P.: Simultaneous *uvby* photometry of GP Andromedae **279**, 338 (**101**, 421)
- Rodríguez, L.F., see Mirabel, I.F., et al. **272**, 735 (**97**, 193)
- Rodríguez, L.F., see Raga, A.C., et al. **276**, 539
- Rodríguez Espinosa, J.M., see Wanders, I., et al. **269**, 39
- Rodríguez Pascual, P., see de Boer, K.S., et al. **280**, L15
- Roellig, T.L., see Harrison, R.A., et al. **274**, L9
- Rönnäng, B.O., see Alberdi, A., et al. **271**, 93
- Rönnäng, B.O., see Krichbaum, T.P., et al. **274**, L37
- Rönnäng, B.O., see Krichbaum, T.P., et al. **275**, 375
- Röser, S., see Schulz, H., et al. **277**, 416
- Röser, S., see Flynn, C. **280**, 131
- Rogers, A.E.E., see Alberdi, A., et al. **271**, 93
- Rogers, A.E.E., see Krichbaum, T.P., et al. **274**, L37
- Rogers, A.E.E., see Lerner, M.S., et al. **280**, 117
- Rogovaya, S.I., see Ptuskin, V.S., et al. **268**, 726
- Rohlfs, K., see Kamppann, H., et al. **276**, 339
- Rokaki, E., Collin-Souffrin, S., Magnan, C.: NGC 5548: a perfect laboratory for testing AGN models? **272**, 8
- Roland, J., see Lehoucq, R., et al. **268**, 93
- Rolland, A., see Rodríguez, E., et al. **273**, 473
- Rolland, A., see Rodríguez, E., et al. **277**, 363 (**100**, 571)
- Rolland, A., see Rodríguez, E., et al. **279**, 338 (**101**, 421)
- Rolleston, W.R.J., Brown, P.J.F., Dufton, P.L., Fitzsimmons, A.: The chemical compositions of the distant galactic open clusters Bochum 1 and NGC 1893 **270**, 107
- Rolleston, W.R.J., Dufton, P.L., Fitzsimmons, A., Howarth, I.D., Irwin, M.J.: The chemical compositions of four B-type stars in the Small Magellanic Cloud **277**, 10
- Romero, G.E., see Luna, H.G., et al. **269**, 77
- Romney, J.D., see Vermeulen, R.C., et al. **270**, 177
- Romney, J.D., see Alberdi, A., et al. **277**, L1
- Roncin, J.-Y., see Abgrall, H., et al. **279**, 336 (**101**, 273)
- Roncin, J.-Y., see Abgrall, H., et al. **279**, 337 (**101**, 323)
- Roques, F., see Hubbard, W.B., et al. **269**, 541
- Roques, J.P., see Cordier, B., et al. **272**, 277
- Roques, J.P., see Bassani, L., et al. **272**, 729 (**97**, 89)
- Roques, J.P., see Churazov, E., et al. **272**, 734 (**97**, 173)
- Roques, J.P., see Cordier, B., et al. **272**, 734 (**97**, 177)
- Roques, J.P., see Lei, F., et al. **272**, 735 (**97**, 189)
- Roques, J.P., see Barret, D., et al. **272**, 738 (**97**, 241)
- Roques, J.P., see Goldwurm, A., et al. **272**, 741 (**97**, 293)
- Roques, J.P., see Gilfanov, M., et al. **272**, 741 (**97**, 303)
- Roques, J.P., see Denis, M., et al. **272**, 743 (**97**, 333)
- Roques, J.P., see Cordier, B., et al. **275**, L1
- Roques, J.P., see Laurent, P., et al. **278**, 444
- Rosado, M., Laval, A., Le Coarer, E., Boulesteix, J., Georgelin, Y.P., Marcellin, M.: The supernova remnant N 120 in the Large Magellanic Cloud **272**, 541
- Rosado, M., see le Coarer, E., et al. **280**, 365
- Rosenbauer, H., see Altwegg, K., et al. **279**, 260
- Rosolen, C., see Lecacheux, A., et al. **275**, 670
- Rossi, C., see Polcaro, V.F., et al. **272**, 732 (**97**, 139)
- Rossi, C., see Viotti, R., et al. **276**, 432
- Rossi, F., see Hubbard, W.B., et al. **269**, 541
- Rossi, M., see Caroli, E., et al. **272**, 746 (**97**, 393)
- Rosso, F., Pelletier, G.: Investigation of astrophysical filaments and determination of their size **270**, 416
- Roth, M., see López, J.A., et al. **267**, 194

- Rothermel, H., see Rydbeck, G., et al. 270, L13
 Rothermel, H., see Fichtel, C.E., et al. 272, 725 (97, 13)
 Rothermel, H., see von Montigny, C., et al. 272, 730 (97, 101)
 Rothermel, H., see Kanbach, G., et al. 272, 744 (97, 349)
 Rothschild, P.E., see Bradt, H.V., et al. 272, 745 (97, 355)
 Rothwell, P., see Martelli, G., et al. 271, 315
 Rots, A.H., see van Woerden, H., et al. 269, 15
 Rotundi, A., see Fulle, M., et al. 276, 582
 Rouaix, G., see Feffer, P.T., et al. 272, 726 (97, 31)
 Roudier, T., see Espagnet, O., et al. 271, 589
 Roueff, E., see Le Boulout, J., et al. 267, 233
 Roueff, E., see Abgrall, H., et al. 279, 336 (101, 273)
 Roueff, E., see Abgrall, H., et al. 279, 337 (101, 323)
 Rousselot, P., Clairemidi, J., Moreels, G.: Radial distribution of the OH radical in Halley's inner coma 277, 653
 Rovero, A.C., see Akerlof, C.W., et al. 274, L17
 Rovira, M.G., see Mandrini, C.H., et al. 272, 609
 Roxburgh, I.W., Simmons, J.: Numerical studies of convective penetration in plane parallel layers and the integral constraint 277, 93
 Roy, A.E., see Valsecchi, G.B., et al. 271, 308
 Roy, A.L., see Zwarthoed, G.A.A., et al. 267, 101
 Rozelot, J.P.: First results obtained within the European "LAMA" programme (Large Active Mirrors in Aluminium) 278, L35
 Rubin, B.C., see Paciasas, W.S., et al. 272, 739 (97, 253)
 Rubio, M., Lequeux, J., Boulanger, F., Booth, R.S., Garay, G., de Graauw, T., Israël, F.P., Johansson, L.E.B., Kutner, M.L., Nyman, L.-Å.: Results of the ESO-SEST Key Programme: CO in the Magellanic Clouds. II. CO in the SW region of the Small Magellanic Cloud 271, 1
 Rubio, M., Lequeux, J., Boulanger, F.: Results of the ESO-SEST Key Programme: CO in the Magellanic Clouds. III. Molecular gas in the Small Magellanic Cloud 271, 9
 Rubio, M., see Garay, G., et al. 274, 743
 Rubio, M., see Israel, F.P., et al. 276, 25
 Rucinski, D., see Fahr, H.J., et al. 268, 792
 Rucinski, D., see Fahr, H.J., et al. 274, 612
 Ruck, M.J., Smith, G.: The Mg I 8806 Å line in the spectra of late-type giant stars 277, 165
 Ruderman, M.S., Fahr, H.J.: The effect of magnetic fields on the macroscopic instability of the heliopause. I. Parallel interstellar magnetic fields 275, 635
 Rudko, V., see Olive, J.-F., et al. 272, 743 (97, 325)
 Rüdiger, G., Kichatinov, L.L.: Alpha-effect and alpha-quenching 269, 581
 Rüdiger, G., Elstner, D., Schultz, M.: Dynamo-driven accretion in galaxies 270, 53
 Rüdiger, G., see Stix, M., et al. 272, 340
 Rüdiger, G., see Kaisig, M., et al. 274, 757
 Rüdiger, G., see Kichatinov, L.L. 276, 96
 Rüdiger, G., see Küker, M., et al. 279, L1
 Ruelas-Mayorga, R.A., Teague, P.F.: Distribution and studies of the infrared stellar population in the Galaxy. V. Other clear regions around the Galactic centre 272, 751 (97, 587)
 Ruffert, M., see Davies, M.B., et al. 272, 430
 Ruffert, M.: Collisions between a white dwarf and a main-sequence star. III. Simulations including the white dwarf surface 280, 141
 Ruiz, J.A., see Sanchez, F., et al. 272, 747 (97, 401)
 Ryan, J., see Schönfelder, V., et al. 272, 725 (97, 27)
 Ryan, J., see Collmar, W., et al. 272, 728 (97, 71)
 Ryan, J., see Connors, A., et al. 272, 728 (97, 75)
 Ryan, J., see Strong, A.W., et al. 272, 732 (97, 133)
 Ryan, J., see Diehl, R., et al. 272, 735 (97, 181)
 Ryan, J., see Lichti, G.G., et al. 272, 736 (97, 215)
 Ryan, J., see Bennett, K., et al. 272, 742 (97, 317)
 Ryan, J.M., see Hermsen, W., et al. 272, 730 (97, 97)
 Rydbeck, G., Wiklund, T., Cameron, M., Wild, W., Eckart, A., Genzel, R., Rothermel, H.: High resolution $^{12}\text{CO}(2-1)$ observations of the molecular gas in Centaurus A 270, L13
 Saar, S.H., see Bunte, M. 271, 167
 Sabau Graziati, L., see Giovannelli, F., et al. 272, 747 (97, 395)
 Sacco, B., see Olive, J.F., et al. 272, 742 (97, 321)
 Sacco, B., see Olive, J.F., et al. 272, 743 (97, 335)
 Sadler, E.M., see Buson, L.M., et al. 280, 409
 Sadžakov, S., Dačić, M., Cvetković, Z.: Characteristics of the catalogue of positions for 223 PZT-Ondrejov-programme stars 272, 747 (97, 417)
 Sagar, R., see Subramaniam, A., et al. 273, 100
 Sage, L.J., see Wiklund, T., et al. 271, 71
 Sage, L.J.: Molecular gas in nearby galaxies. I. CO observations of a distance-limited sample 272, 123
 Sage, L.J., Loose, H.-H., Salzer, J.J.: Powering the starburst in the merging system Mkn 297 273, 6
 Sage, L.J.: Molecular gas in nearby galaxies. II. The data 277, 363 (100, 537)
 Sage, L.J., see Bettoni, D., et al. 280, 121
 Saglia, R.P., see Bertin, G., et al. 271, 381
 Saglia, R.P., Bender, R., Dressler, A.: The intrinsic shape of early-type galaxies and the scatter around the fundamental plane 279, 75
 Saglia, R.P., see Buson, L.M., et al. 280, 409
 Sahal-Bréchet, S., see Dimitrijević, M.S. 275, 356 (99, 585)
 Sahal-Bréchet, S., see Dimitrijević, M.S. 275, 688 (100, 91)
 Sahal-Bréchet, S., see Dimitrijević, M.S. 279, 677 (101, 587)
 Sahu, A., see Chandra, S. 272, 700
 Sahu, K.C., see Garcia-Lario, P., et al. 267, L11
 Sahu, K.C., see Parthasarathy, M., et al. 267, L19
 Sahu, K.C., see Srinivasan Sahu, M. 280, 231
 Saito, S., see Minh, Y.C., et al. 267, 229
 Saito, Y., see Akabane, T., et al. 277, 302
 Salgado, M., see Bonazzola, S., et al. 278, 421
 Salotti, L., see Laurent, P., et al. 278, 444
 Salucci, P., see Persic, M., et al. 279, 343
 Salvati, M., see Giannuzzo, E. 272, 411
 Salvati, M., see Olive, J.F., et al. 272, 742 (97, 321)
 Salvati, M., see Olive, J.F., et al. 272, 743 (97, 335)
 Salvati, M., Hunt, L.K., Calamai, G., Del Zanna, G., Giannuzzo, E., Kidger, M., Mannucci, F., Stanga, R.M., Wamsteker, W.: Variability and emission mechanisms in Seyfert 1 galaxies: a near-infrared outburst in NGC 4051 274, 174
 Salzer, J.J., see Henkel, C., et al. 273, L15
 Salzer, J.J., see Sage, L.J., et al. 273, 6
 Sanchez, F., Uso, J.L., Reglero, V., Ferrero, J.L., Ruiz, J.A.: Monte Carlo simulation of hexagonal geometry for the INTERNATIONAL Gamma-Ray Astrophysics Laboratory 272, 747 (97, 401)
 Sanchez, L., see Loudagh, S., et al. 275, L25
 Sanchez, L., see Ulrich, R.K., et al. 280, 268
 Sanchez, L., see Pallé, P.L., et al. 280, 324
 Sanchez, M., Débarbat, S., Chollet, F.: Observations and ephemeris of Saturn between 1970 and 1978 (*Text in French*) 279, 677 (101, 573)
 Sánchez, M., Moreno, F., Parra, F., Soler, M.: Experimental campaign of solar observation in 1991 with the ROA astrolabe (*Text in French*) 280, 333
 Sanchez, S., see Steppe, H., et al. 280, 350 (102, 611)
 Sánchez Almeida, J., Vela Villaloz, E.: Spectral lines unaffected by instrumental polarization. I. Theory 280, 688

- Sánchez-Saavedra, M.L., see Garrido, J.L., et al. 271, 84
- Sancisi, R., see Henning, P.A., et al. 268, 536
- Sancisi, R., see Kamphuis, J. 273, L31
- Sanders, R.H., see Breimer, T.G. 274, 96
- Sanz Fernández de Córdoba, L.: Evolution of SN 1987 A in the ultra-violet 276, 103
- Saraph, H.E., see Hummer, D.G., et al. 279, 298
- Sarazin, M., see Lopez, B. 276, 320
- Sathyanarayana, G.P., see Vishwanath, P.R., et al. 267, L5
- Sauval, A.J., see Grevesse, N., et al. 271, 587
- Savage, B.D., see Sembach, K.R., et al. 275, 688 (100, 107)
- Savanov, I., see Catala, C., et al. 275, 245
- Savonije, G.J., Heemskerk, M.H.M.: On the radial velocity variations in Be stars 276, 409
- Scaltriti, F., Pirola, V., Coyne, G.V., Koch, R.H., Elias, N.M., Holenstein, B.D.: *UBVR* linear and circular polarization of RS CVn-type binaries 280, 347 (102, 343)
- Scaramuzzi, F., see de Bernardis, P., et al. 271, 683
- Scarsi, L., see Olive, J.F., et al. 272, 742 (97, 321)
- Scarsi, L., see Olive, J.F., et al. 272, 743 (97, 335)
- Scarsi, L.: SAX overview 272, 745 (97, 371)
- Schaeidt, S., Hasinger, G., Trümper, J.: Discovery of a variable super soft X-ray source in the Large Magellanic Cloud during the ROSAT All-Sky Survey 270, L9
- Schaeidt, S., see Molendi, S., et al. 271, 18
- Schaeidt, S., see Pakull, M.W., et al. 278, L39
- Schaeidt, S., see Boller, T., et al. 279, 53
- Schaerer, D., Meynet, G., Maeder, A., Schaller, G.: Grids of stellar models. II. From 0.8 to 120 M_{\odot} at $Z=0.008$ 274, 1012 (98, 523)
- Schaerer, D., see Charbonnel, C., et al. 279, 338 (101, 415)
- Schaerer, D., Charbonnel, C., Meynet, G., Maeder, A., Schaller, G.: Grids of stellar models. IV. From 0.8 to 120 M_{\odot} at $Z=0.040$ 280, 346 (102, 339)
- Schalinski, C.J., see Krichbaum, T.P., et al. 274, L37
- Schalinski, C.J., see Krichbaum, T.P., et al. 275, 375
- Schaller, G., see Schaefer, D., et al. 274, 1012 (98, 523)
- Schaller, G., see Charbonnel, C., et al. 279, 338 (101, 415)
- Schaller, G., see Schaefer, D., et al. 280, 346 (102, 339)
- Schatzman, E.: Filtering of gravity waves 271, L29
- Schatzman, E.: Transport of angular momentum and diffusion by the action of internal waves 279, 431
- Scheck, M., see Breger, M., et al. 271, 482
- Scheck, M., see Strassmeier, K.G., et al. 275, 688 (100, 173)
- Scherer, K., see Fahr, H.-J., et al. 277, 249
- Schiavon, R.P., see Barbuy, B., et al. 279, 338 (101, 409)
- Schieder, R., see Fuhr, W., et al. 274, 975
- Schild, H., see Testor, G., et al. 280, 426
- Schilizzi, R.T., see Hooimeyer, J.R.A., et al. 268, 831
- Schilizzi, R.T., see Vermeulen, R.C., et al. 270, 177
- Schilizzi, R.T., see Vermeulen, R.C., et al. 270, 204
- Schilke, P., see Hauschildt, H., et al. 273, L23
- Schilke, P., see Brouillet, N. 277, 381
- Schimpf, S., see Ulrich, R.K., et al. 280, 268
- Schindler, S., Böhringer, H.: Simulations of the evolution of galaxy clusters. I. Dynamics of the galaxies 269, 83
- Schindler, S., Müller, E.: Simulations of the evolution of galaxy clusters. II. Dynamics of the intra-cluster gas 272, 137
- Schleicher, H., see Balthasar, H., et al. 277, 635
- Schlickeiser, R., see Ostrowski, M. 268, 812
- Schlickeiser, R., see Reich, W., et al. 273, 65
- Schlickeiser, R., see Achatz, U. 274, 165
- Schlickeiser, R., Campeanu, A., Lerche, I.: Stochastic particle acceleration at parallel astrophysical shock waves 276, 614
- Schlosser, W., see Kimeswenger, S., et al. 272, 749 (97, 517)
- Schmid, H.M., Nussbaumer, H.: On the relative C, N, O abundances and the evolutionary status of yellow symbiotic stars 268, 159
- Schmid-Burgk, J., see Wilson, T.L., et al. 276, L29
- Schmider, F.X., see Loudagh, S., et al. 275, L25
- Schmider, F.X., see Ulrich, R.K., et al. 280, 268
- Schmider, F.X., see Pallé, P.L., et al. 280, 324
- Schmidt, H.U., see Solanki, S.K. 267, 287
- Schmidt, H.U., see Neubauer, F.M., et al. 268, L5
- Schmidt, M., see Hasinger, G., et al. 275, 1
- Schmidt, W., see Balthasar, H. 279, 243
- Schmidt-Kaler, T., see Kimeswenger, S., et al. 272, 749 (97, 517)
- Schmidt-Kaler, T., see Gochermann, J., et al. 275, 356 (99, 591)
- Schmieder, B., see Démoulin, P., et al. 271, 292
- Schmieder, B., see Tsiropoulou, G., et al. 271, 574
- Schmieder, B., see Wiik, J.E., et al. 273, 267
- Schmitt, D., see Deinzer, W., et al. 273, 405
- Schmitt, J.H.M.M., see Belloni, T., et al. 269, 175
- Schmitt, J.H.M.M., see Hillier, D.J., et al. 276, 117
- Schmitt, J.H.M.M., Kahabka, P., Stauffer, J., Pters, A.J.M.: ROSAT all-sky X-ray survey of the core region of the Pleiades cluster 277, 114
- Schmitt, J.H.M.M., see Preibisch, T., et al. 279, L33
- Schmitz, F., see Fleck, B. 273, 671
- Schmitz, F., Fleck, B.: On the numerical calculation of hydrodynamic shock waves in atmospheres by an FCT method 279, 499
- Schmitz-Fraysse, M.C., see Grebenev, S., et al. 272, 740 (97, 281)
- Schmitz-Fraysse, M.C., see Gilfanov, M., et al. 272, 741 (97, 303)
- Schmutz, W., see de Koter, A., et al. 277, 561
- Schmutzler, T., Tscharnuter, W.M.: Effective radiative cooling in optically thin plasmas 273, 318
- Schmutzler, T., see von Linden, S., et al. 280, 468
- Schneid, E., see Hunter, S.D., et al. 272, 59
- Schneid, E., see von Montigny, C., et al. 272, 730 (97, 101)
- Schneid, E., see Kanbach, G., et al. 272, 744 (97, 349)
- Schneid, E.J., see Fichtel, C.E., et al. 272, 725 (97, 13)
- Schneider, H., Pavlovski, K., Planinić, M., Ivezić, Ž.: In quest of the secondary in the optical spectrum of the interacting binary V 367 Cygni 277, 480
- Schneider, P., see Bartelmann, M. 268, 1
- Schneider, P., see Erdl, H. 268, 453
- Schneider, P.: A comment on second-order Fermi acceleration 269, L13
- Schneider, P., see Bartelmann, M. 271, 421
- Schneider, P.: Diffusive particle acceleration by an ensemble of shock waves 278, 315
- Schneider, P.: Upper bounds on the cosmological density of compact objects with sub-solar masses from the variability of QSOs 279, 1
- Schneider, P., see Bartelmann, M., et al. 280, 351
- Schober, H.J., Erikson, A., Hahn, G., Lagerkvist, C.-I.: Physical studies of asteroids. XXVI. Rotation periods and photoelectric photometry of asteroids 323, 350, 582, 1021 and 1866 279, 676 (101, 499)
- Schoembs, R., see Wolf, S., et al. 273, 160
- Schönberner, D., see Napiwotzki, R., et al. 268, 653
- Schönfelder, V., Aarts, H.J.M., Bennett, K., Bloemen, H., de Boer, H., Busetta, M., Collmar, W., Connors, A., Diehl, R., den Herder, J.W., Hermesen, W., Kuiper, L., Lichti, G.G., Lockwood, J., Macri, J., McConnell, M., Morris, D., Much, R., Ryan, J., Simpson, G., Stacy, J.G., Steinle, H., Strong, A.W., Swanenburg, B.N., Taylor, V., Varendorff, M., de Vries, C., Webber, W., Winkler, C.: An overview of first results from COMPTEL 272, 725 (97, 27)

- Schönfelder, V., see Collmar, W., et al. 272, 728 (97, 71)
- Schönfelder, V., see Connors, A., et al. 272, 728 (97, 75)
- Schönfelder, V., see Hermesen, W., et al. 272, 730 (97, 97)
- Schönfelder, V., see Strong, A.W., et al. 272, 732 (97, 133)
- Schönfelder, V., see Diehl, R., et al. 272, 735 (97, 181)
- Schönfelder, V., see Lichti, G.G., et al. 272, 736 (97, 215)
- Schönfelder, V., see Bennett, K., et al. 272, 742 (97, 317)
- Schönfelder, V., see Reich, W., et al. 273, 65
- Schöning, T.: Stark broadening of CIV lines 267, 300
- Scholl, H., see Morbidelli, A., et al. 278, 644
- Scholz, G., see Harmanec, P. 279, 131
- Schramkowski, G.P., Achterberg, A.: Dynamics of slender fluxtubes in accretion disks. I. Basic theory 280, 313
- Schramm, K.-J., see von Linde, J., et al. 267, L23
- Schramm, K.-J., Borgeest, U., Camenzind, M., Wagner, S.J., Bade, N., Dreisigacker, O., Heidt, J., Hoff, W., Kayser, R., Kühl, D., von Linde, J., Linnert, M.D., Pelt, J., Schramm, T., Sillanpää, A., Takalo, L.O., Valtaoja, E., Vigotti, M.: Recent activity in the optical and radio lightcurves of the blazar 3C 345: indications for a "lighthouse effect" due to jet rotation 278, 391
- Schramm, T., Kayser, R., Chang, K., Nieser, L., Refsdal, S.: Moving microlensing caustics 268, 350
- Schramm, T., see Kayser, R. 278, L13
- Schramm, T., see Schramm, K.-J., et al. 278, 391
- Schreiber, W., Wouterloot, J.G.A., Heithausen, A., Winnewisser, G.: Warm dense gas in high latitude clouds: multiline CO and NH₃ observations of MBM 32 276, L5
- Schrijver, C.J.: Relations between the photospheric magnetic field and the emission from the outer atmosphere of cool stars. III. The chromospheric emission from individual flux tubes 269, 395
- Schrijver, C.J.: Magnetic activity in dwarf stars with shallow convective envelopes 269, 446
- Schrijver, C.J., Pols, O.R.: Rotation, magnetic braking, and dynamos in cool giants and subgiants 278, 51
- Schröder, K.-P., see Griffin, R.E.M., et al. 274, 225
- Schubnell, M.S., see Akerlof, C.W., et al. 274, L17
- Schultz, M., see Rüdiger, G., et al. 270, 53
- Schulz, A., see Fuhr, W., et al. 274, 975
- Schulz, H., see Barbieri, C., et al. 273, 1
- Schulz, H., see Boer, B. 277, 397
- Schulz, H., Fried, J.W., Röser, S., Keel, W.C.: Extinction and the wavelength-dependent positions of the nuclei of NGC 6240 277, 416
- Schulz, H., Komossa, S.: The evidence for anisotropy of the ionizing continuum of NGC 4151 278, 29
- Schulz, N.S., Wijers, R.A.M.J.: Compton modelling of spectral variations observed in Z sources 273, 123
- Schulz, R.: CN column density distribution in comet P/Halley 268, 319
- Schumacher, G., see Ageorges, N., et al. 271, 373
- Schumacher, G., see Cruzalèbes, P., et al. 272, 709
- Schuster, W.J., Parrao, L., Contreras Martínez, M.E.: *uvby-β* photometry of high-velocity and metal-poor stars. VI. A second catalogue, and stellar populations of the Galaxy 272, 755 (97, 951)
- Schwartz, R., see Krichbaum, T.P., et al. 275, 375
- Schwarz, H.E., see Corradi, R.L.M. 268, 714
- Schwarz, H.E., see Corradi, R.L.M. 269, 462
- Schwarz, H.E., see Corradi, R.L.M. 273, 247
- Schwarz, H.E., see Stanghellini, L., et al. 276, 463
- Schwarz, H.E., see Corradi, R.L.M. 278, 247
- Schwarz, H.E., see Aspin, C., et al. 278, 255
- Schwarz, H.E., see Stanghellini, L., et al. 279, 521
- Schwarz, H.E., see Stanghellini, L., et al. 279, 674
- Schwarz, H.E., see Van Winckel, H., et al. 280, 348 (102, 401)
- Schwarz, U., Benz, A.O., Kurths, J., Witt, A.: Analysis of solar spike events by means of symbolic dynamics methods 277, 215
- Schwarz, U.J., see Roberts, D.A., et al. 274, 427
- Schwöpe, A.D., Thomas, H.-C., Beuermann, K., Reinsch, K.: A spectroscopic ephemeris of the secondary star in the AM Herculis binary V 834 Centauri 267, 103
- Schwöpe, A.D., Thomas, H.-C., Beuermann, K.: Discovery of the bright eclipsing polar RX J2107.9-0518 271, L25
- Schwöpe, A.D., Beuermann, K., Jordan, S., Thomas, H.-C.: Cyclotron and Zeeman spectroscopy of MR Serpentis in low and high states of accretion 278, 487
- Sciortino, S., see Favata, F., et al. 277, 428
- Scott, N., see Lallement, R., et al. 271, 734
- Scott, P.F., see Robson, M., et al. 277, 314
- Seager, S., see Zsoldos, E., et al. 275, 484
- Sedlmayr, E., see Woitke, P., et al. 274, 451
- Sedlmayr, E., see Dominik, C., et al. 277, 578
- Segretain, L., Chabrier, G.: Crystallization of binary ionic mixtures in dense stellar plasmas 271, L13
- Seiradakis, J.H., see Gil, J.A., et al. 272, 268
- Seiradakis, J.H., see Fürst, E., et al. 276, 470
- Seiradakis, J.H., see Doyle, J.G., et al. 278, 499
- Sekanina, Z.: Orbital anomalies of the periodic comets Brorsen, Finlay, and Schwassmann-Wachmann 2 271, 630
- Sekanina, Z.: Nongravitational motions of comets: component of the recoil force normal to orbital plane 277, 265
- Selam, S.O., see Demircan, O. 267, 107
- Selam, S.O., see Demircan, O. 274, 1012 (98, 513)
- Sellmaier, F., Puls, J., Kudritzki, R.P., Gabler, A., Gabler, R., Voels, S.A.: Unified NLTE model atmospheres including spherical extension and stellar winds. IV. Improved line transfer and wind contamination of H, He profiles 273, 533
- Sembach, K.R., Danks, A.C., Savage, B.D.: Optical studies of interstellar material in low density regions of the Galaxy. I. A survey of interstellar Na I and Ca II absorption toward 57 distant stars 275, 688 (100, 107)
- Sembroski, G., see Akerlof, C.W., et al. 274, L17
- Semel, M., see Cupperman, S., et al. 268, 749
- Semel, M., see Cupperman, S., et al. 270, 480
- Semel, M., see Catala, C., et al. 278, 187
- Semel, M., Donati, J.-F., Rees, D.E.: Zeeman-Doppler imaging of active stars. III. Instrumental and technical considerations 278, 231
- Semel, M., see Cupperman, S., et al. 278, 279
- Semel, M., see Li, J., et al. 279, 214
- Sen, A.K., Rana, N.C.: On the missing interstellar comets 275, 298
- Serabyn, E., see Hauschildt, H., et al. 273, L23
- Serio, S., see Sylwester, B., et al. 267, 586
- Serio, S., see Reale, F., et al. 272, 486
- Sérsic, J.L., Donzelli, C.: The southern barred spiral NGC 2442 273, 350 (98, 21)
- Severino, G., see Caccin, B., et al. 276, 219
- Severino, G., see Marmolino, C., et al. 278, 617
- Sèvre, F., see Ferlet, R., et al. 267, 137
- Sèvre, F., see Hubbard, W.B., et al. 269, 541
- Sèvre, F., see Lecavelier des Etangs, A., et al. 274, 877
- Shaham, J., see Alpar, M.A., et al. 273, L35
- Shaham, J., see Augusteijn, T., et al. 279, L13
- Shakhovskoy, N.M., see Valtaoja, L., et al. 273, 393
- Shakhovskoy, N.M., see Valtaoja, L., et al. 278, 371
- Shalagin, A.M., see Nasyrov, K.A. 268, 201
- Shankar, A., Kley, W., Burkert, A.: Axisymmetric accretion flow past large, gravitating bodies 274, 955

- Shapiro, I.I., see Alberdi, A., et al. 271, 93
 Shapiro, I.I., see Krichbaum, T.P., et al. 274, L37
 Shapiro, I.I., see Alberdi, A., et al. 277, L1
 Share, G.H., see Johnson, W.N., et al. 272, 725 (97, 21)
 Share, G.H., Harris, M.J., Leising, M.D., Messina, D.C.: Search for gamma-ray transients using the SMM spectrometer 272, 744 (97, 341)
 Shaw, M., Wilkinson, A., Carter, D.: The stellar dynamics of "box/peanut" galactic bulges. I. NGC 3079 268, 511
 Shaw, M.: The stellar dynamics of "box/peanut" galactic bulges. II. NGC 1055 280, 33
 Shaw, M.A., Combes, F., Axon, D.J., Wright, G.S.: Isophote twists in the nuclear regions of barred spiral galaxies 273, 31
 Shaw, R.A., see Kaler, J.B., et al. 279, 529
 Shcherbakov, A., see Catala, C., et al. 275, 245
 Sheikhet, A., see Cordier, B., et al. 275, L1
 Shelley, E., see Altwegg, K., et al. 279, 260
 Shi, H.M., see Zhao, J.L., et al. 276, 327 (100, 243)
 Shigeyama, T., see Mineshige, S., et al. 267, 95
 Shigeyama, T., see Yamaoka, H., et al. 267, 433
 Shigeyama, T., Kumagai, S., Yamaoka, H., Nomoto, K., Thielemann, F.-K.: Theoretical prediction of gamma-rays from SN 1991T 272, 737 (97, 223)
 Shigeyama, T., see Kumagai, S., et al. 273, 153
 Shigeyama, T., see Suzuki, T., et al. 274, 883
 Shlyapnikov, A.A., see Castro-Tirado, A.J., et al. 276, L37
 Shostak, S., see Oosterloo, T. 275, 354 (99, 379)
 Shrader, C.R., Gonzalez-Riestra, R., Cheng, F.H., Horne, K., Panagia, N., Gilmozzi, R., Lund, N.: Ultraviolet spectroscopy of Nova Muscae 1991 272, 742 (97, 309)
 Shrader, C.R., Gonzalez-Riestra, R.: IUE observations of X-ray Nova Muscae 1991 during outburst 276, 373
 Shukurov, A., see Brandenburg, A., et al. 271, 36
 Sibille, F., see Lagage, P.O., et al. 275, 345
 Sicardy, B., see Hubbard, W.B., et al. 269, 541
 Siebenmorgen, R., Peletier, R.F.: Search for the 1.67 μm PAH emission band: more upper limits 279, L45
 Sievers, A., see Chini, R., et al. 272, L5
 Sievers, A., see Reipurth, B., et al. 273, 221
 Sievers, A., see Gordon, M.A., et al. 280, 208
 Sievers, A., see Steppe, H., et al. 280, 350 (102, 611)
 Sievers, A.W., see Reuter, H.P., et al. 277, 21
 Sievers, A.W., see Guélin, M., et al. 279, L37
 Sigalotti, L.D.G., see Klapp, J., et al. 273, 175
 Signore, M., see de Bernardis, P., et al. 269, 1
 Signore, M., Dupraz, C.: Massive stars as Galactic producers of ^{26}Al 272, 733 (97, 141)
 Sillanpää, A., see Schramm, K.-J., et al. 278, 391
 Silva, A.M., Azcárate, I.N., Pöppel, W.G.L., Likkell, L.: Search for hydroxyl in southern cold IRAS sources 275, 510
 Silvestro, G., see Porro, I. 275, 563
 Sime, D.G., see Harrison, R.A., et al. 274, L9
 Simien, F., Morenas, V., Valentijn, E.A.: On the transparency of the inner regions of early-type spiral galaxies 269, 111
 Simien, F., see Michard, R. 274, L25
 Simien, F., see Michard, R. 279, 335
 Simmons, J., see Roxburgh, I.W. 277, 93
 Simmons, J.F.L., see Clarke, D., et al. 269, 617
 Simon, T., see Catala, C., et al. 275, 245
 Simpson, G., see Schönfelder, V., et al. 272, 725 (97, 27)
 Simpson, G., see Connors, A., et al. 272, 728 (97, 75)
 Simpson, G., see Hermesen, W., et al. 272, 730 (97, 97)
 Simpson, G., see Strong, A.W., et al. 272, 732 (97, 133)
 Simpson, G., see Diehl, R., et al. 272, 735 (97, 181)
 Simpson, G., see Lichti, G.G., et al. 272, 736 (97, 215)
 Simpson, G., see Bennett, K., et al. 272, 742 (97, 317)
 Sinachopoulos, D., van Dessel, E.: A photometric study of wide visual double stars. IV. *uvby* photometry of wide visual double stars with G-type primaries 273, 350 (98, 17)
 Sinachopoulos, D.: Photometry of visual binaries most of which have known orbits 274, 1014 (99, 11)
 Sinachopoulos, D., see van Dessel, E. 277, 362 (100, 517)
 Singh, H.P., Chan, K.L.: A study of three-dimensional turbulent compressible convection in a deep atmosphere at various Prandtl numbers 279, 107
 Singh, P.D., see Barbuy, B., et al. 279, 338 (101, 409)
 Sivagnanam, P., see Omont, A., et al. 267, 515
 Sivagnanam, P., see David, P., et al. 273, 354 (98, 245)
 Sivagnanam, P., see David, P., et al. 277, 453
 Sivan, J.-P., see Perrin, J.-M. 268, 276
 Sivaram, C.: On the Maxwellian alternative to the galactic dark matter problem 275, 37
 Skelton, R.T., see Mahoney, W.A., et al. 272, 746 (97, 385)
 Skibo, J.G., Ramaty, R.: Diffuse Galactic low energy gamma-ray continuum emission 272, 733 (97, 145)
 Skillen, I., see Fernley, J.A., et al. 272, 753 (97, 815)
 Skinner, G.K.: X- and gamma-rays from the Galactic centre 272, 733 (97, 149)
 Skinner, G.K., see Nottingham, M.R., et al. 272, 734 (97, 165)
 Skinner, G.K., see Pan, H.C., et al. 272, 740 (97, 273)
 Skinner, G.K., Grindlay, J.E.: Coded masks with two spatial scales 276, 673
 Skinner, G.K., see Sunyaev, R.A., et al. 280, L1
 Slassi, S., see Feffer, P.T., et al. 272, 726 (97, 31)
 Slassi, S., see Smith, D.M., et al. 272, 736 (97, 199)
 Slee, B., see Vilhu, O., et al. 278, 467
 Slijkhuis, S., see Hu, J.Y., et al. 273, 185
 Slijkhuis, S., see Hu, J.Y., et al. 276, 330 (100, 413)
 Smalley, B., Dworetsky, M.M.: The atmospheric parameters of A and F stars. I. Comparison of various methods 271, 515
 Smalley, B.: The atmospheric parameters of A and F stars. II. The calibration of the Strömgren δm_0 index for A-type stars 274, 391
 Smette, A., see Remy, M., et al. 278, L19
 Smette, A., see Gopal-Krishna, et al. 280, 360
 Smeyers, P., see Van Hoolst, T. 279, 417
 Smith, A., see Ubertini, P., et al. 272, 746 (97, 389)
 Smith, D., see Durouchoux, P., et al. 272, 735 (97, 185)
 Smith, D.M., see Feffer, P.T., et al. 272, 726 (97, 31)
 Smith, D.M., Lin, R.P., Feffer, P., Hurley, K., Slassi, S., von Ballmoos, P., Malet, I., Niel, M., Vedrenne, D., Matteson, J., Bowman, H.B., Pelling, R.M., Peterson, L.E., Durouchoux, P., Wallyn, P., Chapuis, C., Cork, C., Landis, D., Luke, P., Madden, N., Malone, D., Pehl, R., Pollard, M.: HEXAGONE observation of the Galactic center gamma-ray continuum 272, 736 (97, 199)
 Smith, G., see Ruck, M.J. 277, 165
 Smith, K. C.: Elemental abundances in normal late-B and HgMn stars from co-added IUE spectra. II. Magnesium, aluminium, and silicon 276, 393
 Smith, K.C., Dworetsky, M.M.: Elemental abundances in normal late-B and HgMn stars from co-added IUE spectra. I. Iron-peak elements 274, 335
 Smith, L.J., see St-Louis, N., et al. 267, 447
 Smith, L.J., see Esteban, C., et al. 272, 299
 Smith, M.D.: Compression in radiative shocks: switch and intermediate properties 272, 571
 Smith, M.G., see Aspin, C., et al. 278, 255

- Smith, P.N., see Martelli, G., et al. 271, 315
 Smith, V.V., see Jorissen, A., et al. 271, 463
 Smith Jr., H., see Kandrup, H.E., et al. 271, 440
 Sneyd, A.D., see Billinghamurst, M.N., et al. 279, 589
 Soboleva, N.S., see Parijskij, Y.N., et al. 273, 356 (98, 391)
 Soboleva, N.S., see Parijskij, Y.N., et al. 273, 356 (98, 391)
 Soboleva, N.S., see Bursov, N.N., et al. 279, 675 (101, 447)
 Sobouti, Y., see Dehghani, M.H. 275, 91
 Soffitta, P., see Massaro, E., et al. 272, 747 (97, 399)
 Sofue, Y., Wakamatsu, K.: Ram-pressure accretion of intergalactic gas clouds by galaxies 273, 79
 Soggiu, E., see Ubertini, P., et al. 272, 746 (97, 389)
 Sokoloff, D.D., see Brandenburg, A., et al. 271, 36
 Sokolov, P.A., see Kovalenko, I.G. 270, 1
 Solanki, S.K., Schmidt, H.U.: Are sunspot penumbrae deep or shallow? 267, 287
 Solanki, S.K., see Bünte, M., et al. 268, 736
 Solanki, S.K., see Bruls, J.H.M.J. 273, 293
 Solanki, S.K., see Bünte, M., et al. 274, 478
 Solanki, S.K., Montavon, C.A.P.: Uncombed fields as the source of the broad-band circular polarization of sunspots 275, 283
 Solanki, S.K., Walther, U., Livingston, W.: Infrared lines as probes of solar magnetic features. VI. The thermal-magnetic relation and Wilson depression of a simple sunspot 277, 639
 Solanki, S.K., see Degenhardt, D., et al. 272, 730 (97, 101)
 Soler, M., see Sánchez, M., et al. 280, 333
 Sommer, M., see Fichtel, C.E., et al. 272, 725 (97, 13)
 Sommer, M., see Hurley, K., et al. 272, 726 (97, 39)
 Sommer, M., see von Montigny, C., et al. 272, 730 (97, 101)
 Sommer, M., see Kanbach, G., et al. 272, 744 (97, 349)
 Sonneborn, G., see de Boer, K.S., et al. 280, L15
 Sood, R., see Ubertini, P., et al. 272, 730 (97, 105)
 Sood, R., see Bazzano, A., et al. 272, 734 (97, 169)
 Soru-Escut, I., see Chupp, E.L., et al. 275, 602
 Soru-Escut, I., see Mouradian, Z. 280, 661
 Soubiran, C.: Kinematics of the Galaxy's stellar populations from a proper motion survey 274, 181
 Soucaill, G., see Bonnet, H., et al. 280, L7
 Souchay, J.: Comparison between theories of nutation for a rigid-Earth model 276, 266
 Soundararajaperumal, S., see Ghosh, K.K. 273, 397
 Spadaro, D., Ventura, R.: Spectral lines from source regions of the solar wind: the O VI resonance doublet 276, 571
 Spangler, S.R., Eastman, W.A., Gregorini, L., Mantovani, F., Padrielli, L.: Refractive interstellar scintillations and low frequency variability: a detailed analysis using measured source structures 267, 213
 Sparke, L., see Arnaboldi, M., et al. 267, 21
 Sparks, W.B., see Jackson, N., et al. 269, 128
 Sparks, W.B., see Barbieri, C., et al. 273, 1
 Spassova, N., see Federici, L., et al. 274, 87
 Spencer, R.E., see Vermeulen, R.C., et al. 270, 177
 Spencer, R.E., see Akujor, C.E., et al. 274, 752
 Spiller, F., see Sterken, C., et al. 280, 344 (102, 79)
 Spinoglio, L., see Lorenzetti, D., et al. 275, 489
 Spite, F., see Spite, M., et al. 271, L1
 Spite, F., Barbuy, B., Spite, M.: Analysis of NGC 1948 F6:4, a star in a young association of the LMC 272, 116
 Spite, F., see François, P., et al. 274, 821
 Spite, F., Spite, M.: Lithium abundance in a few extremely metal-poor stars and strontium-poor stars 279, L9
 Spite, M., Molaro, P., François, P., Spite, F.: The lithium-poor stars: additional observations 271, L1
 Spite, M., see Spite, F., et al. 272, 116
 Spite, M., see François, P., et al. 274, 821
 Spite, M., see Friel, E., et al. 274, 825
 Spite, M., see Spite, F. 279, L9
 Spizzichino, A., see Caroli, E., et al. 272, 746 (97, 393)
 Spoelstra, T.A.T., see Gopal-Krishna 271, 101
 Spurný, P., see Cepelch, Z., et al. 279, 615
 Srećković, A., see Purić, J., et al. 280, 349 (102, 607)
 Sreekumar, P., see Hunter, S.D., et al. 272, 59
 Sreekumar, P., see Fichtel, C.E., et al. 272, 725 (97, 13)
 Sreekumar, P., see von Montigny, C., et al. 272, 730 (97, 101)
 Sreekumar, P., see Kanbach, G., et al. 272, 744 (97, 349)
 Srinivasan Sahu, M., Sahu, K.C.: Kinematics of the ionised gas in Puppis-Vela including the Gum Nebula 280, 231
 St-Louis, N., Howarth, I.D., Willis, A.J., Stickland, D.J., Smith, L.J., Conti, P.S., Garmany, C.D.: Ultraviolet spectroscopic variability of the WN5 star HD 50896: timescales and linear physical dimensions of the perturbations 267, 447
 Stabell, R., see Refsdal, S. 278, L5
 Stacy, J.G., see Heithausen, A., et al. 268, 265
 Stacy, J.G., see Schönfelder, V., et al. 272, 725 (97, 27)
 Stacy, J.G., see Collmar, W., et al. 272, 728 (97, 71)
 Stacy, J.G., see Connors, A., et al. 272, 728 (97, 75)
 Stacy, J.G., see Strong, A.W., et al. 272, 732 (97, 133)
 Stacy, J.G., see Diehl, R., et al. 272, 735 (97, 181)
 Stacy, J.G., see Lichti, G.G., et al. 272, 736 (97, 215)
 Stacy, J.G., see Bennett, K., et al. 272, 742 (97, 317)
 Staguin, J., see Fuhr, W., et al. 274, 975
 Stahl, O., Wolf, B., Gäng, T., Gummersbach, C.A., Kaufer, A., Kovacs, J., Mandel, H., Szeifert, T.: Periodic spectral variations of θ^1 Orionis C 274, L29
 Stahl, O., Mandel, H., Wolf, B., Gäng, T., Kaufer, A., Kneer, R., Szeifert, T., Zhao, F.: Long-term spectroscopic monitoring of P Cygni-type stars. I. Spectral atlas of P Cygni 274, 1016 (99, 165)
 Stahl, O., see Szeifert, T., et al. 280, 508
 Staiger, J., see Nesis, A., et al. 279, 599
 Standke, K.J., see Krichbaum, T.P., et al. 274, L37
 Standke, K.J., see Krichbaum, T.P., et al. 275, 375
 Stanek, K.Z., see Andrews, A.D. 279, 197
 Stanev, T., see Rachen, J.P., et al. 273, 377
 Stanev, T., Biermann, P.L., Gaisser, T.K.: Cosmic rays. IV. The spectrum and chemical composition above 10^4 GeV 274, 902
 Stanga, R.M., see Salvati, M., et al. 274, 174
 Stanghellini, L., Corradi, R.L.M., Schwarz, H.E.: Near-infrared and optical imaging of Q 2345+007: the largest gravitationally lensed QSO system? 276, 463
 Stanghellini, L., Corradi, R.L.M., Schwarz, H.E.: The correlations between planetary nebula morphology and central star evolution 279, 521
 Stanghellini, L., see Kaler, J.B., et al. 279, 529
 Stanghellini, L., Corradi, R.L.M., Schwarz, H.E.: The correlations between planetary nebula morphology and central star evolution 279, 674
 Stathopoulou, M., Alissandrakis, C.E.: A study of the asymmetry of Fe I lines in the solar spectrum 274, 555
 Staubert, R., see Kunz, M., et al. 268, 116
 Staubert, R., see Ubertini, P., et al. 272, 746 (97, 389)
 Staude, H.J., see Robberto, M., et al. 280, 241
 Staude, J., see Zhugzhda, Y.D., et al. 278, L9
 Stauffer, J., see Schmitt, J.H.M.M., et al. 277, 114
 Stegert, J., see Vladilo G., et al. 280, L11
 Stehlé, C., Jacquemot, S.: Line shapes in hydrogen opacities 271, 348

- Stein, R.F., see Pulkkinen, P., et al. 267, 265
- Steiner, J.E., see Baptista, R. 277, 331
- Steiner, O., see Bünte, M., et al. 268, 299
- Steiner, O., see Bünte, M., et al. 268, 736
- Steinle, H., see von Linde, J., et al. 267, L23
- Steinle, H., see Schönfelder, V., et al. 272, 725 (97, 27)
- Steinle, H., see Collmar, W., et al. 272, 728 (97, 71)
- Steinle, H., see Connors, A., et al. 272, 728 (97, 75)
- Steinle, H., see Hermsen, W., et al. 272, 730 (97, 97)
- Steinle, H., see Strong, A.W., et al. 272, 732 (97, 133)
- Steinle, H., see Diehl, R., et al. 272, 735 (97, 181)
- Steinle, H., see Lichti, G.G., et al. 272, 736 (97, 215)
- Steinle, H., see Bennett, K., et al. 272, 742 (97, 317)
- Steinmetz, M., Müller, E.: On the capabilities and limits of smoothed particle hydrodynamics 268, 391
- Stella, L., see Matt, G., et al. 267, 643
- Stella, L., see Parmar, A.N., et al. 275, 227
- Stella, L., see Mereghetti, S., et al. 278, L23
- Stenholm, B., see Tyllenda, R., et al. 280, 349 (102, 595)
- Stenholm, L., see Eriksson, K. 271, 508
- Stephen, J.B., see Caroli, E., et al. 272, 746 (97, 393)
- Stępień, K., Czechowski, W.: Spectrophotometric behavior of 56 Arietis 268, 187
- Steppe, H., see Reich, W., et al. 273, 65
- Steppe, H., see Krichbaum, T.P., et al. 275, 375
- Steppe, H., Paubert, G., Sievers, A., Reuter, H.P., Greve, A., Liechti, S., Le Floch, B., Brunswig, W., Menéndez, C., Sanchez, S.: Millimeter continuum measurements of extragalactic radio sources (III) 280, 350 (102, 611)
- Sterken, C.: On the period history of the β Cephei star BW Vulpeculae 270, 259
- Sterken, C., Pigulski, A., Liu Zongli: Photoelectric photometry of the β Cephei star BW Vulpeculae (1988–1991) 273, 355 (98, 383)
- Sterken, C., Manfroid, J., Anton, K., Barzewski, A., Bibo, A., Bruch, A., Burger, M., Duerbeck, H.W., Duemmler, R., Heck, A., Hensberge, H., Hiesgen, M., Inklaar, F., Jorissen, A., Juettner, A., Kinkel, U., Liu Zongli, Mekkadén, M.V., Ng, Y.K., Niarchos, P., Püttmann, M., Szeifert, T., Spiller, F., van Dijk, R., Vogt, N., Wanders, I.: Long-term photometry of variables at ESO. II. The second data catalogue (1986–1990) 280, 344 (102, 79)
- Steves, B.A., see Valsecchi, G.B., et al. 271, 308
- Stewart, B.G., see Clarke, D., et al. 269, 617
- Stewart, P.: Chaotic behaviour in binary galaxies 269, 135
- Stewart, R., see Zwarthoed, G.A.A., et al. 267, 101
- Stiavelli, M., Möller, P., Zeilinger, W.W.: Core sub-structure of elliptical galaxies: the core resolution technique applied to NGC 1399 277, 421
- Stich, J., see Breger, M., et al. 271, 482
- Stickel, M., see Fried, J.W., et al. 268, 53
- Stickel, M., Kühr, H., Fried, J.W.: Spectroscopy of 1 Jy and S5 radio source identifications. II 272, 749 (97, 483)
- Stickel, M., see Henkel, C., et al. 273, L15
- Stickel, M., Fried, J.W., Kühr, H.: The complete sample of 1 Jy BL Lacertae objects. II. Observational data 274, 1011 (98, 393)
- Stickel, M.: The optical and radio spectrum of the radio-selected high redshift quasar S4 1745+624 275, 49
- Stickel, M., Kühr, H.: Spectroscopic observations of radio source identifications from the 1 Jy, S4 and S5 surveys. III 276, 330 (100, 395)
- Stickel, M., Kühr, H.: Optical spectroscopy of 1 Jy, S4 and S5 radio sources. IV 279, 676 (101, 521)
- Stickland, D.J., see St-Louis, N., et al. 267, 447
- Stift, M.J., Moser, G.: Frequency grids in radiative transfer problems 268, 617
- Stirpe, G.M., see Wanders, I., et al. 269, 39
- Stix, M., Rüdiger, G., Knölker, M., Grabowski, U.: Damping of solar p-mode oscillations. I. Radial modes with eddy viscosity 272, 340
- Störzer, H.: Structure and spectra of accretion disks in the innermost parts of active galaxies 271, 25
- Stognienko, R., see Henning, T. 280, 609
- Strassmeier, K.G., Rice, J.B., Wehlau, W.H., Hill, G.M., Matthews, J.M.: Surface features of the lower atmosphere of HD 82558 (=LQ Hydrae) 268, 671
- Strassmeier, K.G., Hall, D.S., Fekel, F.C., Scheck, M.: A catalog of chromospherically active binary stars (second edition) 275, 688 (100, 173)
- Strazzulla, G., see Palumbo, M.E. 269, 568
- Strazzulla, G., see Jenniskens, P., et al. 273, 583
- Strickman, M.S., see Johnson, W.N., et al. 272, 725 (97, 21)
- Strigachev, A., see Kalinkov, M., et al. 273, 352 (98, 165)
- Strom, R.G., see Biermann, P.L. 275, 659
- Strong, A., see Bennett, K., et al. 272, 742 (97, 317)
- Strong, A.W., see Schönfelder, V., et al. 272, 725 (97, 27)
- Strong, A.W., see Collmar, W., et al. 272, 728 (97, 71)
- Strong, A.W., see Connors, A., et al. 272, 728 (97, 75)
- Strong, A.W., see Hermsen, W., et al. 272, 730 (97, 97)
- Strong, A.W., Bennett, K., Bloemen, H., de Boer, H., Bucchini, R., Busetta, M., Collmar, W., Connors, A., Diehl, R., den Herder, J.W., Hermsen, W., Kuiper, L., Lockwood, J., Lichti, G.G., Macri, J., McConnell, M., Morris, D., Much, R., Ryan, J., Schönfelder, V., Simpson, G., Stacy, J.G., Steinle, H., Swanenburg, B.N., Varendorff, M., Winkler, C., de Vries, C.: The Crab and Galactic anticentre region observed by COMPTEL 272, 732 (97, 133)
- Strong, A.W., see Diehl, R., et al. 272, 735 (97, 181)
- Strong, A.W., see Lichti, G.G., et al. 272, 736 (97, 215)
- Struckmann, H., see Hubbard, W.B., et al. 269, 541
- Stürenburg, S.: Abundance analysis of λ Bootis stars 277, 139
- Stutzki, J., see Fuhr, W., et al. 274, 975
- Subramaniam, A., Sagar, R., Bhatt, H.C.: Spatial distribution of stellar mass in the Large Magellanic Cloud star clusters 273, 100
- Subtil, J.-L., see Abgrall, H., et al. 279, 336 (101, 273)
- Subtil, J.-L., see Abgrall, H., et al. 279, 337 (101, 323)
- Sukhanov, K., see Mandrou, P., et al. 272, 724 (97, 1)
- Sukhanov, K., see Churazov, E., et al. 272, 734 (97, 173)
- Sukhanov, K., see Cordier, B., et al. 272, 734 (97, 177)
- Sukhanov, K., see Lei, F., et al. 272, 735 (97, 189)
- Sukhanov, K., see Laurent, P., et al. 272, 737 (97, 225)
- Sukhanov, K., see Barret, D., et al. 272, 738 (97, 241)
- Sukhanov, K., see Grebenev, S., et al. 272, 740 (97, 281)
- Sukhanov, K., see Goldwurm, A., et al. 272, 741 (97, 293)
- Sukhanov, K., see Denis, M., et al. 272, 743 (97, 333)
- Sukumar, S., see Neininger, N., et al. 274, 687
- Sun, X.J., see Cheng, L.X., et al. 277, L13
- Sundelius, B., see Sundin, M., et al. 280, 105
- Sundin, M., Donner, K.J., Sundelius, B.: Change in angular velocity of perturbed galactic bars 280, 105
- Sunyaev, R., see Kunz, M., et al. 268, 116
- Sunyaev, R., see Cordier, B., et al. 272, 277
- Sunyaev, R., see Mandrou, P., et al. 272, 724 (97, 1)
- Sunyaev, R., see Lestrade, J.P., et al. 272, 728 (97, 79)
- Sunyaev, R., Churazov, E., Gilfanov, M., Terekhov, O., Dyachkov, A., Khavenson, N., Kovtunenkov, V., Kremnev, R., Claret, A., Lebrun, F., Goldwurm, A., Paul, J., Pelaez, F., Atteia, J.L., Mandrou, P., Vedrenne, G.: A search for weak gamma-ray bursts with GRANAT/SIGMA 272, 729 (97, 85)
- Sunyaev, R., see Bassani, L., et al. 272, 729 (97, 89)

- Sunyaev, R., see Nottingham, M.R., et al. 272, 734 (97, 165)
- Sunyaev, R., see Churazov, E., et al. 272, 734 (97, 173)
- Sunyaev, R., see Cordier, B., et al. 272, 734 (97, 177)
- Sunyaev, R., see Lei, F., et al. 272, 735 (97, 189)
- Sunyaev, R., see Laurent, P., et al. 272, 737 (97, 225)
- Sunyaev, R., see Barret, D., et al. 272, 738 (97, 241)
- Sunyaev, R., see Brandt, S., et al. 272, 739 (97, 257)
- Sunyaev, R., see Pan, H.C., et al. 272, 740 (97, 273)
- Sunyaev, R., see Grebenev, S., et al. 272, 740 (97, 281)
- Sunyaev, R., see Goldwurm, A., et al. 272, 741 (97, 293)
- Sunyaev, R., see Gilfanov, M., et al. 272, 741 (97, 303)
- Sunyaev, R., see Castro-Tirado, A.J., et al. 272, 743 (97, 329)
- Sunyaev, R., see Denis, M., et al. 272, 743 (97, 333)
- Sunyaev, R., see Trottet, G., et al. 272, 743 (97, 337)
- Sunyaev, R., see Cordier, B., et al. 275, L1
- Sunyaev, R., see Laurent, P., et al. 278, 444
- Sunyaev, R.A., Kaniovsky, A.S., Borozdin, K.N., Efremov, V.V., Aref'ev, V.A., Melioransky, A.S., Skinner, G.K., Pan, H.C., Kendziorra, E., Maisack, M., Döbereiner, S., Pietsch, W.: Broad-band X-ray observations of the GRO J0422+32 X-ray nova by the "Mir-Kvant" observatory 280, L1
- Supper, R., see Magnier, E.A., et al. 278, 36
- Surdej, J., see Magain, P., et al. 272, 383
- Surdej, J., see Remy, M., et al. 278, L19
- Surlantzis, G., see Tsinganos, K., et al. 275, 613
- Surma, P.: Shutter-free flatfielding for CCD detectors 278, 654
- Suzuki, T., Shigeyama, T., Nomoto, K.: X-ray emission from the collision of the ejecta with the ring nebula around SN 1987A 274, 883
- Swanenburg, B.N., see Connors, A., et al. 272, 728 (97, 75)
- Swanenburg, B.N., see Schönfelder, V., et al. 272, 725 (97, 27)
- Swanenburg, B.N., see Collmar, W., et al. 272, 728 (97, 71)
- Swanenburg, B.N., see Hermsen, W., et al. 272, 730 (97, 97)
- Swanenburg, B.N., see Strong, A.W., et al. 272, 732 (97, 133)
- Swanenburg, B.N., see Diehl, R., et al. 272, 735 (97, 181)
- Swanenburg, B.N., see Lichti, G.G., et al. 272, 736 (97, 215)
- Swanenburg, B.N., see Bennett, K., et al. 272, 742 (97, 317)
- Swank, J.H., see Quin, D.A., et al. 272, 477
- Swank, J.H., see Bradt, H.V., et al. 272, 745 (97, 355)
- Sylwester, B., Sylwester, J., Serio, S., Reale, F., Bentley, R.D., Fludra, A.: Dynamics of flaring loops. III. Interpretation of flare evolution in the emission measure-temperature diagram 267, 586
- Sylwester, J., see Sylwester, B., et al. 267, 586
- Szabados, L., see Vinkó, J., et al. 279, 410
- Szakály, G., see Petrovay, K. 274, 543
- Szatmáry, K., see Vinkó, J., et al. 279, 410
- Szeidl, B., see Kolláth, Z. 277, 62
- Szeifert, T., see Stahl, O., et al. 274, L29
- Szeifert, T., see Stahl, O., et al. 274, 1016 (99, 165)
- Szeifert, T., Stahl, O., Wolf, B., Zickgraf, F.-J., Bouchet, P., Klare, G.: R 40: the first luminous blue variable in the Small Magellanic Cloud 280, 508
- Szeifert, T., see Sterken, C., et al. 280, 344 (102, 79)
- Tabary, A., see Goret, P., et al. 270, 401
- Tadhunter, C., see Wanders, I., et al. 269, 39
- Tadhunter, C.N., see Jackson, N. 272, 105
- Takahashi, K., see Baraffe, I. 280, 476
- Takalo, L.O., see Schramm, K.-J., et al. 278, 391
- Takeuti, M., see Hosokawa, M., et al. 278, L27
- Talavera, A., see Blondel, P.F.C., et al. 268, 624
- Talbi, D., Pauzat, F., Ellinger, Y.: Unidentified infrared emission bands: models for the carriers of the satellites of the 3.3 μ m band 268, 805
- Talon, R., see Lestrade, J.P., et al. 272, 728 (97, 79)
- Talon, R., see Trottet, G., et al. 272, 743 (97, 337)
- Tammann, G.A., see Binggeli, B., et al. 273, 354 (98, 275)
- Tammann, G.A., see Jerjen, H. 276, 1
- Tan Lu, see Zigao Dai, et al. 272, 705
- Tanzilli, P.E., see de Bernardis, P., et al. 269, 1
- Tapia, M., see Bohigas, J., et al. 267, 168
- Tapia, M., see López, J.A., et al. 267, 194
- Tarafdar, S.P., see Krishna Swamy, K.S. 271, 326
- Tarchi, D., Comoretto, G.: Holographic measurement on Medicina radio telescope using artificial satellites at 11 GHz 275, 679
- Tarengi, M., see Garilli, B., et al. 275, 687 (100, 33)
- Tavani, M., Brookshaw, L.: Modelling time variable and total eclipses of the millisecond pulsar PSR 1744-24A 267, L1
- Tavani, M.: Gamma rays from "hidden" millisecond pulsars 272, 742 (97, 313)
- Taylor, A.R., see Dougherty, S.M., et al. 273, 503
- Taylor, B., see Connors, A., et al. 272, 728 (97, 75)
- Taylor, B., see Bennett, K., et al. 272, 742 (97, 317)
- Taylor, B.G., see Collmar, W., et al. 272, 728 (97, 71)
- Taylor, D.B., see Harper, D. 268, 326
- Taylor, D.B., see Beurle, K., et al. 269, 564
- Taylor, G.B., see Felli, M., et al. 273, 352 (98, 137)
- Taylor, G.B., see Felli, M., et al. 279, 680 (101, 127)
- Taylor, V., see Schönfelder, V., et al. 272, 725 (97, 27)
- Tchuikin, E.I., see Leikov, N.G., et al. 272, 744 (97, 345)
- te Lintel Hekkert, P., see Omont, A., et al. 267, 515
- Teague, P.F., see Ruelas-Mayorga, R.A. 272, 751 (97, 587)
- Teerikorpi, P.: On general Malmquist corrections to direct and inverse Tully-Fisher distance moduli 280, 443
- Teerikorpi, P., see Bottinelli, L., et al. 280, 344 (102, 57)
- Teixeira, R., see Benevides-Soares, P., et al. 278, 293
- Tejero, J., see Fuente, A., et al. 275, 558
- Telting, J.H., Waters, L.B.F.M., Persi, P., Dunlop, S.R.: Long-term changes in emission line and continuum spectrum of the Be star γ Cassiopeiae: H β V/R and IR continuum flux variations 270, 355
- Temirova, A.V., see Parijskij, Y.N., et al. 273, 356 (98, 391)
- Temirova, A.V., see Parijskij, Y.N., et al. 273, 356 (98, 391)
- Temirova, A.V., see Bursov, N.N., et al. 279, 675 (101, 447)
- Tenjes, P., Busarello, G., Longo, G., Zaggia, S.: On the intrinsic shape of elliptical galaxies 275, 61
- Terebizh, V.Y.: Superresolution in pattern recognition and image restoration problems 270, 543
- Terekhov, O., see Lestrade, J.P., et al. 272, 728 (97, 79)
- Terekhov, O., see Sunyaev, R., et al. 272, 729 (97, 85)
- Terekhov, O., see Trottet, G., et al. 272, 743 (97, 337)
- Terlevich, R., see Wanders, I., et al. 269, 39
- Terquem, C., Bertout, C.: Tidally-induced warps in T Tauri disks. I. First-order perturbation theory 274, 291
- Terranegra, L., see Alcalá, J.M., et al. 272, 225
- Terzan, A., see Cuisinier, F., et al. 277, 203
- Testor, G., Schild, H., Lortet, M.C.: The OB association LH 90 in the LMC: its age structure and Wolf-Rayet stars 280, 426
- Thaddeus, P., see Heithausen, A., et al. 268, 265
- Thaddeus, P., see Garay, G., et al. 274, 743
- Thaddeus, P., see May, J., et al. 274, 1015 (99, 103)
- The, L.-S., see Hartmann, D., et al. 272, 737 (97, 219)
- Thé, P.S., Pérez, M.R., de Winter, D., van den Ancker, M.E.: The new Be-type star HD 147196 in the ρ Ophiuchi dark cloud region 269, 181
- Thé, P.S., see Pérez, M.R., et al. 274, 381
- Thé, P.S., see Grady, C.A., et al. 274, 847
- Theis, C., Hensler, G.: Dynamical evolution of dissipative cloud systems 280, 85

- Theissen, A., see Conlon, E.S., et al. **269**, L1
- Theissen, A., Moehler, S., Heber, U., de Boer, K.S.: Hot subluminous stars at high galactic latitudes. IV. Physical parameters and distances of 18 hot subdwarf stars and their spatial distribution **273**, 524
- Thejll, P., see Jørgensen, U.G. **272**, 255
- Thiele, U., see Rafanelli, P., et al. **275**, 451
- Thielemann, F.-K., see Shigeyama, T., et al. **272**, 737 (**97**, 223)
- Thiering, I., Reimers, D.: Ultraviolet observations of the circumstellar envelope of α^1 Herculis in the line of sight of α^2 Herculis **274**, 838
- Thimm, G., see Hanuschik, R.W., et al. **274**, 356
- Thomas, H.-C., see Schwope, A.D., et al. **267**, 103
- Thomas, H.-C., see Schwope, A.D., et al. **271**, L25
- Thomas, H.-C., see Pakull, M.W., et al. **278**, L39
- Thomas, H.-C., see Schwope, A.D., et al. **278**, 487
- Thomas, J.H., see Degenhardt, D., et al. **279**, L29
- Thomas, N., see Jockers, K., et al. **268**, L9
- Thomasson, M., see Elmegreen, B.G. **272**, 37
- Thomasson, M., Donner, K.J.: A model of the tidal interaction between M 81 and NGC 3077 **272**, 153
- Thomasson, M., see Donner, K.J. **279**, 28
- Thompson, D.J., see Hunter, S.D., et al. **272**, 59
- Thompson, D.J., see Fichtel, C.E., et al. **272**, 725 (**97**, 13)
- Thompson, D.J., see von Montigny, C., et al. **272**, 730 (**97**, 101)
- Thompson, D.J., see Kanbach, G., et al. **272**, 744 (**97**, 349)
- Thompson, I.B., see Bohlender, D.A., et al. **269**, 355
- Thompson, M.J., see Christensen-Dalsgaard, J. **272**, L1
- Thouvenot, E., see Hubbard, W.B., et al. **269**, 541
- Thuillot, W., see Hubbard, W.B., et al. **269**, 541
- Tian, K.P., see Zhao, J.L., et al. **276**, 327 (**100**, 243)
- Tikhonov, N.A., Karachentsev, I.D.: Photometric distances to five dwarf galaxies in the vicinity of M 81 **275**, 39
- Tikhonov, N.A., see Karachentsev, I.D. **276**, 327 (**100**, 227)
- Tilanus, R.P.J., Allen, R.J.: Spiral structure of M 83: distribution and kinematics of the atomic and ionized hydrogen **274**, 707
- Titov, V.S., Priest, E.R., Démoulin, P.: Conditions for the appearance of "bald patches" at the solar surface **276**, 564
- Tjin A Djie, H.R.E., see Blondel, P.F.C., et al. **268**, 624
- Tkaczyk, W., see Dokuchaev, V.I., et al. **272**, 731 (**97**, 109)
- Tkaczyk, W., see Moskalenko, I.V., et al. **272**, 739 (**97**, 269)
- Tomkin, J., see Edvardsson, B., et al. **275**, 101
- Tomkin, J., see Edvardsson, B., et al. **280**, 349 (**102**, 603)
- Tomov, T., see Kolev, D. **275**, 687 (**100**, 1)
- Tomozawa, Y.: Gamma-rays from point sources and a universal energy spectrum **272**, 731 (**97**, 117)
- Tompkins, G.J., see Harrison, R.A., et al. **274**, L9
- Topchiev, N., see Olive, J.-F., et al. **272**, 743 (**97**, 325)
- Topchiev, N.P., see Leikov, N.G., et al. **272**, 744 (**97**, 345)
- Torkelsson, U.: Magnetic buoyancy in accretion disks **274**, 675
- Torra, J., see Luri, X., et al. **267**, 305
- Torra, J., see Comerón, F., et al. **279**, 679 (**101**, 37)
- Torrelles, J.M., see Raga, A.C., et al. **276**, 539
- Tóth, L.V., see Pásztor, L., et al. **268**, 108
- Tóth, V., see Friedemann, C., et al. **277**, 184
- Toublanc, D., see Hubbard, W.B., et al. **269**, 541
- Toutain, T., Gouttebroze, P.: Visibility of solar p-modes **268**, 309
- Tovmassian, H.M., Hovhannessian, R.K., Epemian, R.A., Huguénin, D.: Bright blue stars in Vela observed with the "Glazar" space telescope **277**, 362 (**100**, 501)
- Trams, N.R., see van der Veen, W.E.C.J., et al. **269**, 231
- Trams, N.R., see Waters, L.B.F.M., et al. **269**, 242
- Trapero, J., see McKeith, C.D., et al. **273**, 331
- Tresse, L., Hammer, F., Le Fèvre, O., Proust, D.: First results from a deep spectroscopic survey of faint red galaxies: clues on the nature of low redshift dwarf galaxies **277**, 53
- Treves, A., Colpi, M., Lipunov, V.M.: Old isolated neutron stars: fire burns and cauldron bubbles **269**, 319
- Treves, A., see Colpi, M., et al. **278**, 161
- Trifoglio, M., see Caroli, E., et al. **272**, 746 (**97**, 393)
- Trigilio, C., see Umana, G., et al. **267**, 126
- Trottet, G., Vilmer, N., Barat, C., Dezalay, J.P., Talon, R., Sunyaev, R., Kuznetsov, A., Terekhov, O.: Temporal and spectral characteristics of the June 11, 1991 gamma-ray flare **272**, 743 (**97**, 337)
- Trottet, G., see Chupp, E.L., et al. **275**, 602
- Trümper, J., see Kunz, M., et al. **268**, 116
- Trümper, J., see Schaeidt, S., et al. **270**, L9
- Trümper, J., see Magnier, E.A., et al. **272**, 695
- Trümper, J., see Becker, W., et al. **273**, 421
- Trümper, J., see Hasinger, G., et al. **275**, 1
- Trümper, J., see Magnier, E.A., et al. **278**, 36
- Trümper, J., see Boller, T., et al. **279**, 53
- Trullols, E., Jordi, C.: Analysis of IRAS stellar sources in the α Persei region **276**, 328 (**100**, 311)
- Trullols, E., see Paredes, J.M., et al. **280**, 347 (**102**, 381)
- Truong-Bach, Graham, D., Nguyen-Q-Rieu: HC₃N from the envelopes of IRC+10216 and CRL2688 **277**, 133
- Trushkin, S.A., see Vermeulen, R.C., et al. **270**, 189
- Trussoni, E., Tsinganos, K.: Analytical studies of collimated winds. III. Nonrotating meridional MHD outflows **269**, 589
- Tschäpe, R., Kley, W.: Coronal structures of α -disk models **273**, 169
- Tscharnuter, W.M., see Schmutzler, T. **273**, 318
- Tscharnuter, W.M., see Bertout, C., et al. **275**, 236
- Tsekeris, P., see Bizzarri, A., et al. **273**, 707
- Tserenin, I., see Mandrou, P., et al. **272**, 724 (**97**, 1)
- Tserenin, I., see Lei, F., et al. **272**, 735 (**97**, 189)
- Tserenin, I., see Barret, D., et al. **272**, 738 (**97**, 241)
- Tserenin, I., see Denis, M., et al. **272**, 743 (**97**, 333)
- Tserenin, I., see Cordier, B., et al. **275**, L1
- Tsinganos, K., see Trussoni, E. **269**, 589
- Tsinganos, K., Surlantzis, G., Priest, E.R.: MHD equilibria with flows in uniform gravity. II. A class of exact 2-D loop-like solutions **275**, 613
- Tsiropoulou, G., Alissandrakis, C.E., Schmieder, B.: The fine structure of a chromospheric rosette **271**, 574
- Tsuru, T., see Vilhu, O., et al. **278**, 467
- Tsvetanov, Z., see Kalinkov, M., et al. **273**, 352 (**98**, 165)
- Tsvetkov, D.Y., see Cappellaro, E., et al. **268**, 472
- Tsvetkov, D.Y., see Cappellaro, E., et al. **273**, 383
- Tsybko, Y.G., see Itkina, M.A., et al. **279**, 235
- Tuchman, Y., Lèbre, A., Mennessier, M.O., Yarri, A.: Linear analysis of RV Tauri stars: the resonance hypothesis **271**, 501
- Tucholke, H.-J., see Dick, W.R., et al. **279**, 267
- Tugaenko, V.Y., see Leikov, N.G., et al. **272**, 744 (**97**, 345)
- Tully, J.A., see Hummer, D.G., et al. **279**, 298
- Tunca, Z., see Paparó, M., et al. **268**, 123
- Tunca, Z., see İbanoğlu, C., et al. **269**, 310
- Tuominen, I., see Pulkkinen, P., et al. **267**, 265
- Tuominen, I., see Brandenburg, A., et al. **271**, 36
- Tuominen, I., see Catala, C., et al. **275**, 245
- Tuominen, I., see Jetsu, L., et al. **278**, 449
- Tuominen, I., see Vincent, A., et al. **278**, 523
- Turatto, M., see Cappellaro, E., et al. **268**, 472
- Turatto, M., see Mazzali, P.A., et al. **269**, 423
- Turatto, M., see Cappellaro, E., et al. **273**, 383

- Turatto, M., see Patat, F., et al. 274, 1011 (98, 443)
- Turner, D.G.: A detailed study of the sparse open cluster Roslund 3: a case for circumstellar extinction 272, 752 (97, 755)
- Turner, M., see Ubertini, P., et al. 272, 746 (97, 389)
- Tutukov, A.V., see Krügel, E. 275, 416
- Tylenda, R., Acker, A., Stenholm, B.: Wolf-Rayet nuclei of planetary nebulae. Observations and classification 280, 349 (102, 595)
- Tyson, N.D., Richmond, M.W., Woodhams, M., Ciotti, L.: On the possibility of a major impact on Uranus in the past century 275, 630
- Ubertini, P., Bazzano, A., Cocchi, M., La Padula, C., Sood, R.: Hard X-ray observation of Centaurus A 272, 730 (97, 105)
- Ubertini, P., see Bazzano, A., et al. 272, 734 (97, 169)
- Ubertini, P., Bassani, L., Bazzano, A., Lund, N., Manzo, G., Mas, M., Smith, A., Soggiu, E., Stauber, R., Turner, M.: X-ray monitor on INTEGRAL: astrophysics in the 4-100 ke V band 272, 746 (97, 389)
- Udry, S.: N-body equilibrium figures of early-type galaxies. I. Global structures 268, 35
- Ulmer, M.P., see Johnson, W.N., et al. 272, 725 (97, 21)
- Ulrich, R.K., Henney, C.J., Schimpf, S., Fossat, E., Gelly, B., Grec, G., Loudagh, S., Schmider, F.X., Pallé, P., Regulo, C., Roca Cortés, T., Sanchez, L.: Modeling of integrated sunlight velocity measurements: the effect of surface darkening by magnetic fields 280, 268
- Umana, G., Trigilio, C., Hjellming, R.M., Catalano, S., Rodonò, M.: Radio spectra of selected Algol-type binaries 267, 126
- Umana, G., see Leone, F. 268, 667
- Unger, S., see Wanders, I., et al. 269, 39
- Unger, S.J., see Roche, P., et al. 270, 122
- Unger, S.J., see Coe, M.J., et al. 272, 738 (97, 245)
- Unger, S.J., see Roche, P., et al. 272, 740 (97, 277)
- Unger, S.W., see Vladilo, G., et al. 280, L11
- Ungstrup, E., see Neubauer, F.M., et al. 268, L5
- Unwin, S.C., see Carrara, E.A., et al. 279, 83
- Urban, Z., see Chochol, D., et al. 277, 103
- Uso, J.L., see Sanchez, F., et al. 272, 747 (97, 401)
- Uson, J.M., see Cornwell, T.J., et al. 271, 697
- Utrobin, V.: Hydrodynamic study of supernova 1987A: near the peak luminosity 270, 249
- Vacanti, G., see Goret, P., et al. 270, 401
- Vaeck, N., see Hibbert, A., et al. 274, 1016 (99, 177)
- Vaidya, D.B., see Anandarao, B.G., et al. 273, 570
- Valbousquet, A., see Jaschek, C. 275, 472
- Valentijn, E.A., see Simien, F., et al. 269, 111
- Valenziano, L., see de Bernardis, P., et al. 271, 683
- Vallenari, A., Bomans, D.J., de Boer, K.S.: Star formation history of the young association NGC 1948 at the edge of the supergiant shell LMC 4 268, 137
- Valsecchi, G.B., Perozzi, E., Roy, A.E., Steves, B.A.: Periodic orbits close to that of the Moon 271, 308
- Valtaoja, E., see Valtaoja, L., et al. 273, 393
- Valtaoja, E., see Schramm, K.-J., et al. 278, 391
- Valtaoja, L., Karttunen, H., Valtaoja, E., Shakhovskoy, N.M., Efimov, Y.S.: Optical circular polarization in two BL Lacertae objects? 273, 393
- Valtaoja, L., Karttunen, H., Efimov, Y.S., Shakhovskoy, N.M.: The long and short timescale polarization variability of the BL Lacertae object PKS 0109+224 278, 371
- Valtonen, H., see Basu, D., et al. 272, 417
- Valtonen, M.J., see Basu, D., et al. 272, 417
- Van de Steene, G.C.M., see Parthasarathy, M., et al. 267, L19
- Van de Steene, G.C.M., Pottasch, S.R.: Radio continuum observations of southern planetary nebulae candidates 274, 895
- van den Ancker, M.E., see Thé, P.S., et al. 269, 181
- van den Broek, A.C.: A study of southern extreme IRAS galaxies. IV. Summary and interpretation of the observations 269, 96
- van den Heuvel, E.P.J., see Vermeulen, R.C., et al. 270, 204
- van den Hoek, L.B., see Vermeulen, R.C., et al. 270, 204
- van den Oord, G.H.J., see van Oss, R.F., et al. 270, 275
- van der Hulst, J.M., see Duric, N., et al. 275, 353 (99, 217)
- van der Klis, M., see Penninx, W., et al. 267, 92
- van der Klis, M., see Zwarthoed, G.A.A., et al. 267, 101
- van der Klis, M., Hasinger, G., Verbunt, F., van Paradijs, J., Belloni, T., Lewin, W.H.G.: Further ROSAT measurements of the period of 4U 1820-30 279, L21
- van der Veen, W.E.C.J., see Blommaert, J.A.D.L., et al. 267, 39
- van der Veen, W.E.C.J., Trams, N.R., Waters, L.B.F.M.: The mass loss history of high latitude supergiants 269, 231
- van Dessel, E., see Sinachopoulos, D. 273, 350 (98, 17)
- van Dessel, E., Sinachopoulos, D.: CCD astrometry and instrumental ΔV photometry of wide visual double stars. III. Differential measurements of often observed southern pairs 277, 362 (100, 517)
- van Dijk, R., see Connors, A., et al. 272, 728 (97, 75)
- van Dijk, R., see Hermesen, W., et al. 272, 730 (97, 97)
- van Dijk, R., see Lichti, G.G., et al. 272, 736 (97, 215)
- van Dijk, R., see Sterken, C., et al. 280, 344 (102, 79)
- van Dishoeck, E.F., see Gredel, R., et al. 269, 477
- van Dishoeck, E.F., Jansen, D.J., Phillips, T.G.: Submillimeter observations of the shocked molecular gas associated with the supernova remnant IC 443 279, 541
- van Driel, W., see van Woerden, H., et al. 269, 15
- van Driel, W., see Mulder, P.S. 272, 63
- van Driel, W., de Graauw, T., de Jong, T., Wesselius, P.R.: IRAS CPC observations of galaxies. I. Catalog and atlas 279, 681 (101, 207)
- van Driel, W., see Braine, J., et al. 280, 451
- van Driel-Gesztelyi, L., see Démoulin, P., et al. 271, 292
- van Geffen, J.H.G.M.: Distribution of magnetic energy in $\alpha\Omega$ -dynamos. III. A localized solar dynamo 274, 534
- van Genderen, A.M., see Hoekzema, N.M., et al. 274, 1012 (98, 505)
- van Genderen, A.M., see Greve, A., et al. 275, 356 (99, 577)
- van Groningen, E., see Wanders, I., et al. 269, 39
- van Groningen, E.: An analysis of the spectra of 3 Seyfert-1 galaxies with strong Ca II emission 272, 25
- Van Hoolst, T., Smeyers, P.: Non-linear, non-radial, isentropic oscillations of stars: third-order coupled-mode equations 279, 417
- van Kerkwijk, M.H., see Vermeulen, R.C., et al. 270, 204
- van Kerkwijk, M.H., see Dougherty, S.M., et al. 273, 503
- van Kerkwijk, M.H., see Coté, J. 274, 870
- van Kerkwijk, M.H.: Spectroscopic and photometric variability of Cygnus X-3 276, L9
- van Kerwijk, M.H., see Augusteijn, T., et al. 267, L55
- Van Langevelde, H.J., Janssens, A.M., Goss, W.M., Habing, H.J., Winnberg, A.: Monitoring OH/IR stars at the Galactic centre with the VLA 279, 680 (101, 109)
- van Loon, J.T., see Kaper, L., et al. 279, 485
- van Oss, R.F., see Volwerk, M., et al. 270, 265
- van Oss, R.F., van den Oord, G.H.J., Kuperus, M.: Accretion disk flares in energetic radiation fields. A model for hard X-rays from black hole candidates 270, 275
- van Paradijs, J., see Augusteijn, T., et al. 267, L55
- van Paradijs, J., see Penninx, W., et al. 267, 92
- van Paradijs, J., see Zwarthoed, G.A.A., et al. 267, 101
- van Paradijs, J., see Magnier, E.A., et al. 272, 695
- van Paradijs, J., see Magnier, E.A., et al. 278, 36
- van Paradijs, J., see van der Klis, M., et al. 279, L21

- van Paradijs, J., see Hollander, A., et al. 279, 680 (101, 87)
- Van Regemorter, H., Hoang-Binh, D.: Stark broadening theory of solar Rydberg lines in the far-infrared spectrum 277, 623
- van 't Veer, F., see Maceroni, C. 277, 515
- van Teeseling, A., Verbunt, F., Heise, J.: The nature of the X-ray spectrum of VW Hydri 270, 159
- van Teeseling, A., Verbunt, F., Heise, J.: The nature of the X-ray spectrum of VW Hydri 273, 721
- Van Winckel, H., Duerbeck, H.W., Schwarz, H.E.: An atlas of high resolution line profiles of symbiotic stars. I. Coudé echelle spectrometry of southern objects and a classification system of H α line profiles 280, 348 (102, 401)
- van Woerden, H., van Driel, W., Braun, R., Rots, A.H.: Distribution and motions of atomic hydrogen in lenticular galaxies. X. The blue S0 galaxy NGC 5102 269, 15
- Vanden Bout, P.A., see Radford, S.J.E., et al. 271, L21
- Vanderriest, C., see Magain, P., et al. 272, 383
- Varendorff, M., see Schönfelder, V., et al. 272, 725 (97, 27)
- Varendorff, M., see Collmar, W., et al. 272, 728 (97, 71)
- Varendorff, M., see Connors, A., et al. 272, 728 (97, 75)
- Varendorff, M., see Strong, A.W., et al. 272, 732 (97, 133)
- Varendorff, M., see Diehl, R., et al. 272, 735 (97, 181)
- Varendorff, M., see Lichti, G.G., et al. 272, 736 (97, 215)
- Varendorff, M., see Bennett, K., et al. 272, 742 (97, 317)
- Varnell, L.S., see Mahoney, W.A., et al. 272, 746 (97, 385)
- Varvoglis, H.: Large orbital eccentricities and close encounters at the 2:1 resonance of a dynamical system modelling asteroidal motion 275, 301
- Varvoglis, H., see Kleidis, K., et al. 275, 309
- Vashkovyak, S.N., see Emelyanov, N.V., et al. 267, 634
- Vauclair, G., Belmonte, J.A., Pfeiffer, B., Chevreton, M., Dolez, N., Motch, C., Werner, K., Pakull, M.W.: A new pulsating PG 1159 white dwarf RXJ 2117.1+3412 267, L35
- Vaz, L.P.R., see Clausen, J.V., et al. 279, 677 (101, 563)
- Vázquez, M., see Aballe Villero, M.A., et al. 267, 275
- Vázquez, M., see Martínez Pillet, V. 270, 494
- Vázquez, M., see Martínez Pillet, V., et al. 274, 521
- Vedrenne, D., see Smith, D.M., et al. 272, 736 (97, 199)
- Vedrenne, G., see Mandrou, P., et al. 272, 724 (97, 1)
- Vedrenne, G., see Feffer, P.T., et al. 272, 726 (97, 31)
- Vedrenne, G., see Sunyaev, R., et al. 272, 729 (97, 85)
- Vedrenne, G., see Durouchoux, P., et al. 272, 735 (97, 185)
- Vedrenne, G., see Lei, F., et al. 272, 735 (97, 189)
- Vedrenne, G., see Cordier, B., et al. 275, L1
- Vela Villahoz, E., see Sánchez Almeida, J. 280, 688
- Velli, M.: On the propagation of ideal, linear Alfvén waves in radially stratified stellar atmospheres and winds 270, 304
- Ventura, R., see Spadaro, D. 276, 571
- Ventura, R., see Peres, G., et al. 278, 179
- Venturi, T., Pearson, T.J., Barthel, P.D., Herbig, T.: The superluminal character of the compact steep spectrum quasar 3C 216 271, 65
- Verbunt, F., see Belloni, T., et al. 269, 175
- Verbunt, F., see van Teeseling, A., et al. 270, 159
- Verbunt, F., see van Teeseling, A., et al. 273, 721
- Verbunt, F., see van der Klis, M., et al. 279, L21
- Vermeulen, R., see Alberdi, A., et al. 271, 93
- Vermeulen, R.C., Schilizzi, R.T., Spencer, R.E., Romney, J.D., Fejes, I.: A series of VLBI images of SS 433 during the outbursts in May/June 1987 270, 177
- Vermeulen, R.C., McAdam, W.B., Trushkin, S.A., Facondi, S.R., Fiedler, R.L., Hjellming, R.M., Johnston, K.J., Corbin, J.: Daily spectra of radio flares from SS 433 in May/June 1987 270, 189
- Vermeulen, R.C., see Aslanov, A.A., et al. 270, 200
- Vermeulen, R.C., Murdin, P.G., van den Heuvel, E.P.J., Fabrika, S.N., Wagner, R.M., Margon, B., Hutchings, J.B., Schilizzi, R.T., van Kerkwijk, M.H., van den Hoek, L.B., Ott, E., Angebault, L.P., Miley, G.K., D'Odorico, S., Borisov, N.: Monitoring of very rapid changes in the optical spectrum of SS433 in May/June 1987 270, 204
- Véron, P., see Véron-Cetty, M.-P. 277, 362 (100, 521)
- Véron-Cetty, M.-P., Véron, P.: Spectroscopic observations of sixteen BL Lacertae candidates 277, 362 (100, 521)
- Véron-Cetty, M.P., Woltjer, L.: Spectrophotometry of the continuum in the Crab Nebula 270, 370
- Vettolani, G., see Galli, M., et al. 279, 336 (101, 259)
- Vial, J.C., see Paletou, F., et al. 274, 571
- Vial, J.C., see Gouttebroze, P., et al. 275, 355 (99, 513)
- Viala, Y., see Gerin, M., et al. 268, 212
- Viale, A., see le Coarer, E., et al. 280, 365
- Viallefond, F., see Duric, N., et al. 275, 353 (99, 217)
- Vidal, I., Belmonte, J.A.: Prospects of stellar variability using a CCD: the discovery of a new W Ursae Majoris system in the open cluster NGC 6802 274, 265
- Vidal, J.L., see Hubbard, W.B., et al. 269, 541
- Vidal-Madjar, A., see Ferlet, R., et al. 267, 137
- Vidal-Madjar, A., see Deleuil, M., et al. 267, 187
- Vidal-Madjar, A., see Lemoine, M., et al. 269, 469
- Vidal-Madjar, A., see Lemoine, M., et al. 273, 611
- Vidal-Madjar, A., see Vladilo, G., et al. 274, 37
- Vidal-Madjar, A., see Lecavelier des Etangs, A., et al. 274, 877
- Vidal-Madjar, A., see Molaro, P., et al. 274, 505
- Vidal-Madjar, A., see Bertin, P., et al. 278, 549
- Viergutz, S.U.: Image generation in Kerr geometry. I. Analytical investigations on the stationary emitter-observer problem 272, 355
- Vietri, M., see Capaccioli, M., et al. 274, 69
- Vigotti, M., see Schramm, K.-J., et al. 278, 391
- Vigouroux, A., Delache, P.: Fourier versus wavelet analysis of solar diameter variability 278, 607
- Vilchez, J.M., see Esteban, C., et al. 272, 299
- Vilchez, J.M., see Muñoz-Tuñón, C., et al. 278, 364
- Vilchez-Gómez, R., see Le Borgne, J.F. 271, 425
- Vilhu, O., see Poutanen, J. 275, 337
- Vilhu, O., see Ergma, E. 277, 483
- Vilhu, O., Tsuru, T., Collier Cameron, A., Budding, E., Banks, T., Slee, B., Ehrenfreund, P., Foing, B.H.: Multifrequency observations of AB Doradus. X-ray flaring and rotational modulation of a young star 278, 467
- Villada, M., see Polcaro, V.F., et al. 273, L49
- Vilmer, N., see Trottet, G., et al. 272, 743 (97, 337)
- Vince, I., see Nesme-Ribes, E., et al. 276, 211
- Vince, I., see Popović, L.Č., et al. 280, 343 (102, 17)
- Vincent, A., Piskunov, N.E., Tuominen, I.: Surface imaging of eclipsing binary stars. I. Techniques 278, 523
- Vinkó, J., Szabados, L., Szatmáry, K.: Study of the Population II Cepheid AU Pegasi 279, 410
- Viotti, R., see Damineli Neto, A., et al. 268, 183
- Viotti, R., see Polcaro, V.F. 274, 807
- Viotti, R., Polcaro, V.F., Rossi, C.: AG Carinae. III. The 1990 hot phase of the star and the physical structure of the circumstellar environment 276, 432
- Vishwanath, P.R., Sathyanarayana, G.P., Ramanamurthy, P.V., Bhat, P.N.: Search for TeV gamma rays from Geminga 267, L5
- Vitry, R., see Ferlet, R., et al. 267, 137
- Vittone, A.A., see Giovannelli, F., et al. 272, 747 (97, 395)
- Vladilo, G., Centurión, M., Càssola, C.: The interstellar $^{12}\text{CH}^+ / ^{13}\text{CH}^+$ ratio towards the Sco OB1 association 273, 239

- Vladilo, G., Molaro, P., Monai, S., D'Odorico, S., Ferlet, R., Vidal-Madjar, A., Dennefeld, M.: Interstellar Ca II and Na I in the SN1987A field. II. LMC gas **274**, 37
- Vladilo, G., see Molaro, P., et al. **274**, 505
- Vladilo G., Centurión, M., de Boer, K.S., King, D.L., Lipman, K., Stegert, J., Unger, S.W., Walton, N.A.: Interstellar and intergalactic gas in the direction of SN 1993J in M 81 **280**, L11
- Vlahos, L., see Anastasiadis, A. **275**, 427
- Völk, H.J., see Breitschwerdt, D., et al. **269**, 54
- Voels, S.A., see Sellmaier, F., et al. **273**, 533
- Vogel, M.: Proof for a wind from the hot component in the symbiotic system EG Andromedae **274**, L21
- Vogel, M., see Knill, O., et al. **274**, 1002
- Vogel, S., see Baade, D., et al. **269**, 195
- Vogel, S., Engels, D., Hagen, H.-J., Groote, D., Wisotzki, L., Cordis, L., Reimers, D.: Emission-line galaxies in the Hamburg Quasar Survey **273**, 353 (**98**, 193)
- Vogel, S., Reimers, D.: Constraints for the shape of the UV background at $z=2$ **274**, L5
- Vogel, S., see Reimers, D. **276**, L13
- Voges, W., see Heber, U., et al. **267**, L31
- Voges, W., see Boër, M., et al. **272**, 728 (**97**, 69)
- Voges, W., see Ebeling, H., et al. **275**, 360
- Vogt, N., see Sterken, C., et al. **280**, 344 (**102**, 79)
- Vokrouhlický, D., Farinella, P., Lucchesi, D.: Long-periodic albedo perturbations on LAGEOS **280**, 282
- Vokrouhlický, D., Farinella, P., Mignard, F.: Solar radiation pressure perturbations for Earth satellites. I. A complete theory including penumbra transitions **280**, 295
- Volkmer, R., see Bendlin, C. **278**, 601
- Volland, H., see Pätzold, M., et al. **268**, L13
- Volwerk, M., van Oss, R.F., Kuijpers, J.: Magnetic flares near accreting black holes **270**, 265
- Volzhenskaya, V.A., see Leikov, N.G., et al. **272**, 744 (**97**, 345)
- von Ballmoos, P., see Malet, I., et al. **272**, 732 (**97**, 137)
- von Ballmoos, P., see Diehl, R., et al. **272**, 735 (**97**, 181)
- von Ballmoos, P., see Durouchoux, P., et al. **272**, 735 (**97**, 185)
- von Ballmoos, P., see Smith, D.M., et al. **272**, 736 (**97**, 199)
- von der Lühe, O.: Speckle imaging of solar small-scale structure. I. Methods **268**, 374
- von Linde, J., Borgeest, U., Schramm, K.-J., Graser, U., Heidt, J., Hopp, U., Meisenheimer, K., Nieser, L., Steinle, H., Wagner, S.: A rapid optical flare in the distant γ -ray source 0836+710 **267**, L23
- von Linde, J., see Schramm, K.-J., et al. **278**, 391
- von Linden, S., Duschl, W.J., Biermann, P.L.: Molecular clouds as tracers of the dynamics in the central region of the galaxy **269**, 169
- von Linden, S., see Biermann, P.L., et al. **275**, 153
- von Linden, S., Biermann, P.L., Duschl, W.J., Lesch, H., Schmutzler, T.: Our galactic center: a laboratory for the feeding of active galactic nuclei **280**, 468
- von Montigny, C., see Hunter, S.D., et al. **272**, 59
- von Montigny, C., see Fichtel, C.E., et al. **272**, 725 (**97**, 13)
- von Montigny, C., Bertsch, D.L., Fichtel, C.E., Hartman, R.C., Hunter, S.D., Kanbach, G., Kniffen, D.A., Kwok, P.W., Lin, Y.C., Mattox, J.R., Mayer-Hasselwander, H.A., Michelson, P.F., Nolan, P.L., Pinkau, K., Roethermel, H., Schneid, E., Sommer, M., Sreekumar, P., Thompson, D.J.: EGRET observations of 3C 273 **272**, 730 (**97**, 101)
- von Montigny, C., see Kanbach, G., et al. **272**, 744 (**97**, 349)
- von Uexküll, M., see Kneer, F. **274**, 584
- Vondrák, J., see Pešek, I., et al. **274**, 621
- Vowinkel, B., see Fuhr, W., et al. **274**, 975
- Vucetich, H., see Orellana, R.B. **273**, 313
- Waelkens, C., see Waters, L.B.F.M., et al. **269**, 242
- Waelkens, C., see Aerts, C. **273**, 135
- Waelkens, C., see De Pauw, M., et al. **280**, 493
- Wagner, R.M., see Vermeulen, R.C., et al. **270**, 204
- Wagner, S., see von Linde, J., et al. **267**, L23
- Wagner, S., see Moreno-Corral, M.A., et al. **273**, 619
- Wagner, S.J., see Wanders, I., et al. **269**, 39
- Wagner, S.J., Witzel, A., Krichbaum, T.P., Wegner, R., Quirrenbach, A., Anton, K., Erkens, U., Khanna, R., Zensus, A.: Intraday variability in the BL Lac object 0954+658 **271**, 344
- Wagner, S.J., see Schramm, K.-J., et al. **278**, 391
- Wakamatsu, K., see Sofue, Y. **273**, 79
- Walder, R., see Dgani, R., et al. **267**, 155
- Walder, R., see Nussbaumer, H. **278**, 209
- Walldhausen, S., Marraco, H.G.: Microscale structure in the Norma dark cloud **267**, 255
- Walker, A., see Caloi, V., et al. **271**, 109
- Walker, C.K., see Hauschildt, H., et al. **273**, L23
- Wallis, M.K., see Neubauer, F.M., et al. **268**, L5
- Wallyn, P., see Durouchoux, P., et al. **272**, 735 (**97**, 185)
- Wallyn, P., see Smith, D.M., et al. **272**, 736 (**97**, 199)
- Walmsley, C.M., see Jacq, T., et al. **271**, 276
- Walmsley, C.M., see Baudry, A., et al. **271**, 552
- Walmsley, C.M., see Harju, J., et al. **273**, 351 (**98**, 51)
- Walmsley, C.M., see Olmi, L., et al. **276**, 489
- Walsh, J.R., see Meaburn, J., et al. **268**, 283
- Walsh, J.R., see Walton, N.A., et al. **275**, 256
- Walsh, J.R., see Meaburn, J., et al. **276**, L21
- Walter, R., Fink, H.H.: The ultraviolet to soft X-ray bump of Seyfert I type active galactic nuclei **274**, 105
- Walterbos, R.A.M., see Braun, R. **273**, 355 (**98**, 327)
- Walther, U., see Solanki, S.K., et al. **277**, 639
- Walton, N.A., Walsh, J.R., Pottasch, S.R.: Imaging and spectroscopy of Abell 63 (UU Sge) **275**, 256
- Walton, N.A., see Vladilo G., et al. **280**, L11
- Wampler, E.J., Bergeron, J., Petitjean, P.: The absorption spectrum of Q 2116-358 **273**, 15
- Wamsteker, W., see Salvati, M., et al. **274**, 174
- Wamsteker, W., see de Boer, K.S., et al. **280**, L15
- Wanders, I., van Groningen, E., Alloin, D., Aretxaga, I., Axon, D., de Bruyn, A.G., Clavel, J., Dietrich, M., Goad, M.R., Gondhalekar, P., Horne, K., Jackson, N., Kollatschny, W., Laurikainen, E., Lawrence, A., Masegosa, J., O'Brien, P.T., del Olmo, A., Penston, M.V., Perea, J., Pérez, E., Pérez-Fournon, I., Perry, J.J., Robinson, A., Rodríguez Espinosa, J.M., Stirpe, G.M., Tadhunter, C., Terlevich, R., Unger, S., Wagner, S.J., Williams, R.: Spectroscopic monitoring of active galactic nuclei. II. The Seyfert-I galaxy NGC 3516 **269**, 39
- Wanders, I., see Sterken, C., et al. **280**, 344 (**102**, 79)
- Wang, M., Lemaître, G.: Active optics and deformed toroid concave gratings: higher order aspherizations **271**, 365
- Wang, S., see Zhang, X., et al. **275**, 356 (**99**, 545)
- Wang, T.Y., Wouterloot, J.G.A., Wilson, T.L.: Orion KL: rotation or two clouds? **277**, 205
- Wang Hongqi, see Xu Jiayan, et al. **271**, 360
- Wang Rui, see Xu Jiayan, et al. **271**, 360
- Wang Zezhi, see Xu Jiayan, et al. **271**, 360
- Ward-Thompson, D., see Chini, R., et al. **272**, L5
- Wargau, W.F., see Cunow, B. **280**, 346 (**102**, 331)
- Warren, S.J., see Møller, P. **270**, 43
- Warwick, R.S., see Jackson, N., et al. **274**, 79
- Wasserman, L.H., see Hubbard, W.B., et al. **269**, 541

- Waters, L.B.F.M., see van der Veen, W.E.C.J., et al. **269**, 231
- Waters, L.B.F.M., Waelkens, C., Mayor, M., Trams, N.R.: A model for the 89 Herculis system **269**, 242
- Waters, L.B.F.M., see Telting, J.H., et al. **270**, 355
- Waters, L.B.F.M., Marlborough, J.M., Geballe, T.R., Oosterbroek, T., Zaai, P.: Infrared emission lines in τ Scorpii: a pole-on Be star? **272**, L9
- Waters, L.B.F.M., see Dougherty, S.M., et al. **273**, 503
- Watson, W.D., see Anderson, N. **270**, 477
- Watt, G., see Harrison, R.A., et al. **274**, L9
- Wauben, W.M.F., de Haan, J.F., Hovenier, J.W.: Approximations for computing the internal radiation of a homogeneous molecular scattering atmosphere **276**, 241
- Wauben, W.M.F., de Haan, J.F., Hovenier, J.W.: Low orders of scattering in a plane-parallel homogeneous atmosphere **276**, 589
- Wauben, W.M.F., de Haan, J.F., Hovenier, J.W.: Approximations for the radiation inside an inhomogeneous planetary atmosphere **277**, 666
- Webber, W., see Schönfelder, V., et al. **272**, 725 (**97**, 27)
- Webber, W., see Collmar, W., et al. **272**, 728 (**97**, 71)
- Webber, W., see Connors, A., et al. **272**, 728 (**97**, 75)
- Webber, W., see Bennett, K., et al. **272**, 742 (**97**, 317)
- Webber, W.R., see Hermesen, W., et al. **272**, 730 (**97**, 97)
- Weekes, T.C., see Akerlof, C.W., et al. **274**, L17
- Wegner, R., see Wagner, S.J., et al. **271**, 344
- Wegner, W., see Papaj, J., et al. **273**, 575
- Wehlau, W.H., see Strassmeier, K.G., et al. **268**, 671
- Weidemann, V.: The Hyades distance and white dwarf constraints **275**, 158
- Weigelt, G., see Barbieri, C., et al. **273**, 1
- Weigelt, G., see Hofmann, K.-H. **278**, 328
- Weigelt, G., see Reinheimer, T., et al. **279**, 322
- Weight, A., Evans, A., Albinson, J.S., Krautter, J.: Millimetre observations of old novae **268**, 294
- Weiß, A.G., Buchert, T.: High-resolution simulation of deep pencil beam surveys – analysis of quasi-periodicity **274**, 1
- Weitzel, N., see Leinert, C., et al. **271**, 535
- Weitzel, N., see Leinert, C., et al. **278**, 129
- Wendker, H.J., see Landecker, T.L., et al. **276**, 522
- Wendker, H.J., see Feldt, C. **276**, 328 (**100**, 287)
- Wenske, V., see Napiwotzki, R., et al. **268**, 653
- Werner, K., see Vauclair, G., et al. **267**, L35
- Werner, K., see Motch, C., et al. **268**, 561
- Werner, K., see Napiwotzki, R., et al. **278**, 478
- Werner, K., see Dreizler, S. **278**, 199
- Wesemael, F., see Demers, S., et al. **275**, 355 (**99**, 437)
- Wesemael, F., see Demers, S., et al. **275**, 355 (**99**, 461)
- Wesselius, P.R., see Carballo, R., et al. **268**, 832
- Wesselius, P.R., see Assendorp, R. **277**, 361 (**100**, 473)
- Wesselius, P.R., see van Driel, W., et al. **279**, 681 (**101**, 207)
- Wessolowski, U., see Hamann, W.-R., et al. **274**, 397
- West, M., see Akerlof, C.W., et al. **274**, L17
- Westerlund, B.E., see Rebeiro, E., et al. **272**, 751 (**97**, 603)
- Westerlund, B.E., see Israel, F.P., et al. **276**, 25
- Wheaton, W.A., see Mahoney, W.A., et al. **272**, 733 (**97**, 159)
- Wheaton, W.A., see Mahoney, W.A., et al. **272**, 746 (**97**, 385)
- Whitaker, T., see Akerlof, C.W., et al. **274**, L17
- White, G.J.: A CO and IRAS study of Cometary Globule 12 **274**, L33
- White, G.J., see Minchin, N.R., et al. **277**, 595
- White, N.E., see Parmar, A.N., et al. **275**, 227
- White, N.E., see Parmar, A.N., et al. **279**, 179
- White, N.E., see Haberl, F. **280**, 519
- Whiteoak, J.B., see Dahlem, M., et al. **270**, 29
- Whittet, D.C.B., see Carballo, R., et al. **268**, 832
- Whittet, D.C.B., see Prusti, T., et al. **279**, 163
- Wichmann, R., see Alcalá, J.M., et al. **272**, 225
- Wiehr, E., see Balthasar, H., et al. **277**, 635
- Wiehr, E., Degenhardt, D.: Magnetic field strengths in umbral dots **278**, 584
- Wielebinski, R., see Dahlem, M., et al. **270**, 29
- Wielebinski, R., see Klein, U., et al. **271**, 402
- Wielebinski, R., Jessner, A., Kramer, M., Gil, J.A.: First detection of pulsars at mm-wavelengths **272**, L13
- Wielebinski, R., see Braine, J., et al. **272**, 754 (**97**, 887)
- Wieringa, M.H., de Bruyn, A.G., Jansen, D., Brouw, W.N., Katgert, P.: Small-scale polarization structure in the diffuse galactic emission at 325 MHz **268**, 215
- Wiik, J.E., Dere, K., Schmieder, B.: UV prominences observed with the HRTS: structure and physical properties **273**, 267
- Wiita, P.J., see Gopal-Krishna, et al. **271**, 89
- Wiita, P.J., see Chakrabarti, S.K. **271**, 216
- Wiita, P.J., see Gopal-Krishna, et al. **280**, 360
- Wijers, R.A.M.J., see Schulz, N.S. **273**, 123
- Wiklund, T., see Braine, J. **267**, L47
- Wiklund, T., see Henkel, C., et al. **268**, L17
- Wiklund, T., see Rydbeck, G., et al. **270**, L13
- Wiklund, T., Henkel, C., Sage, L.J.: The molecular cloud content of early-type galaxies. IV. A molecular bar in NGC 4691 **271**, 71
- Wild, W., see Rydbeck, G., et al. **270**, L13
- Wilken, B., see Johnstone, A.D., et al. **273**, L1
- Wilkinson, A., see Shaw, M., et al. **268**, 511
- Wilkinson, L.K., see Mandrini, C.H., et al. **272**, 609
- Williams, I.P., see Beurle, K., et al. **269**, 564
- Williams, O.R., see Collmar, W., et al. **272**, 728 (**97**, 71)
- Williams, O.R., see Connors, A., et al. **272**, 728 (**97**, 75)
- Williams, R., see Wanders, I., et al. **269**, 39
- Williams, W., see Hermesen, W., et al. **272**, 730 (**97**, 97)
- Willis, A.J., see St-Louis, N., et al. **267**, 447
- Willmore, A.P., see Nottingham, M.R., et al. **272**, 734 (**97**, 165)
- Wilson, C., see Akerlof, C.W., et al. **274**, L17
- Wilson, D.M.A., see Robson, M., et al. **277**, 314
- Wilson, R., see Hurley, K., et al. **272**, 726 (**97**, 39)
- Wilson, R.B., see Fishman, G.J., et al. **272**, 725 (**97**, 17)
- Wilson, R.B., see Kouveliotou, C., et al. **272**, 727 (**97**, 55)
- Wilson, R.B., see Paciesas, W.S., et al. **272**, 739 (**97**, 253)
- Wilson, R.W., see Dutrey, A., et al. **270**, 468
- Wilson, T.L., see Becker, R., et al. **268**, 483
- Wilson, T.L., Hüttemeister, S., Dahmen, G., Henkel, C.: Three transitions of methanol at 1 cm wavelength **268**, 249
- Wilson, T.L., see Baudry, A., et al. **271**, 552
- Wilson, T.L., see Felli, M., et al. **273**, 352 (**98**, 137)
- Wilson, T.L., Henkel, C., Hüttemeister, S., Dahmen, G., Linhart, A., Lemme, C., Schmid-Burgk, J.: Hot ammonia emission: kinetic temperature gradients in Orion-KL **276**, L29
- Wilson, T.L., see Hüttemeister, S., et al. **276**, 445
- Wilson, T.L., see Wang, T.Y., et al. **277**, 205
- Wilson, T.L., Mauersberger, R., Muders, D., Przewodnik, A., Olano, C.A.: The molecular gas toward Cassiopeia A **280**, 221
- Wilson, T.L., see Hüttemeister, S., et al. **280**, 255
- Winkler, C., see Schönfelder, V., et al. **272**, 725 (**97**, 27)
- Winkler, C., see Collmar, W., et al. **272**, 728 (**97**, 71)
- Winkler, C., see Connors, A., et al. **272**, 728 (**97**, 75)
- Winkler, C., see Hermesen, W., et al. **272**, 730 (**97**, 97)
- Winkler, C., see Strong, A.W., et al. **272**, 732 (**97**, 133)
- Winkler, C., see Lichti, G.G., et al. **272**, 736 (**97**, 215)

- Winkler, C., see Bennett, K., et al. 272, 742 (97, 317)
- Winnberg, A., see Van Langevelde, H.J., et al. 279, 680 (101, 109)
- Winnewisser, G., see Fuhr, W., et al. 274, 975
- Winnewisser, G., see Schreiber, W., et al. 276, L5
- Winningham, J.D., see Johnstone, A.D., et al. 273, L1
- Winsall, M.L., Freeman, K.C.: Velocity distributions in spherical elliptical galaxies. II. Measuring line-of-sight stellar velocity distributions 268, 443
- Wisotzki, L., see Vogel, S., et al. 273, 353 (98, 193)
- Wisotzki, L., Köhler, T., Kayser, R., Reimers, D.: The new double QSO HE 1104-1805: Gravitational lens with microlensing or binary quasar? 278, L15
- Witt, A., see Schwarz, U., et al. 277, 215
- Witt, H.J., Kayser, R., Refsdal, S.: Microlensing predictions for the Einstein Cross 2237+0305 268, 501
- Witzel, A., see Alberdi, A., et al. 271, 93
- Witzel, A., see Wagner, S.J., et al. 271, 344
- Witzel, A., see Krichbaum, T.P., et al. 274, L37
- Witzel, A., see Krichbaum, T.P., et al. 275, 375
- Woan, G., see Robson, M., et al. 277, 314
- Wöhl, H., see Balthasar, H., et al. 277, 635
- Wöhl, H., see Lustig, G. 278, 637
- Woelk, U., Beuermann, K.: Temperature structure of a particle-heated magnetic atmosphere 280, 169
- Woitke, P., Dominik, C., Sedlmayr, E.: Dust destruction in the transition region between stellar wind and interstellar medium 274, 451
- Wójcik, K., see Krzesiński, J. 280, 338
- Wolf, B., see Stahl, O., et al. 274, L29
- Wolf, B., see Stahl, O., et al. 274, 1016 (99, 165)
- Wolf, B., see Szeifert, T., et al. 280, 508
- Wolf, S., Mantel, K.H., Horne, K., Barwig, H., Schoembs, R., Baerbantner, O.: Period and disk radius changes in the dwarf nova IP Pegasi 273, 160
- Wolstencroft, R., see Nyman, L.-Å., et al. 269, 377
- Wolstencroft, R.D., see Meaburn, J., et al. 268, 283
- Woltjer, L., see Véron-Cetty, M.P. 270, 370
- Woo, J.W., see Corbet, R.H.D., et al. 276, 52
- Wood, K., Brown, J.C., Fox, G.K.: Polarimetric line profiles from optically thin Thomson scattering circumstellar envelopes 271, 492
- Woodhams, M., see Tyson, N.D., et al. 275, 630
- Woody, D., see Lerner, M.S., et al. 280, 117
- Woosley, S.E.: Hard X-ray and gamma-rays from supernovae 272, 736 (97, 205)
- Woosley, S.E., see Hartmann, D., et al. 272, 737 (97, 219)
- Wouterloot, J.G.A., see Becker, R., et al. 268, 483
- Wouterloot, J.G.A., see Harju, J., et al. 273, 351 (98, 51)
- Wouterloot, J.G.A., Brand, J., Fiegle, K.: IRAS sources beyond the solar circle. III. Observations of H₂O, OH, CH₃OH and CO 274, 1013 (98, 589)
- Wouterloot, J.G.A., see Schreiber, W., et al. 276, L5
- Wouterloot, J.G.A., see Wang, T.Y., et al. 277, 205
- Wright, G.S., see Shaw, M.A., et al. 273, 31
- Wright, G.S., see Aspin, C., et al. 278, 255
- Wright, M.C.H., see Lerner, M.S., et al. 280, 117
- Wu, M., see Cheng, L.X., et al. 277, L13
- Xiao-qing Li, Yue-hua Ma: Self-generated magnetic field by transverse plasmons in celestial bodies 270, 534
- Xie, G.Z., see Fan, J.H., et al. 275, 688 (100, 103)
- Xie, G.Z., Zhang, Y.H., Fan, J.H., Liu, F.K.: The relation between BL Lacertae objects and OVV quasars, and the unified model of BL Lacertae objects, FR-I and FR-II (G) radio galaxies 278, 6
- Xilouris, E.M., see Kylafis, N.D. 278, L43
- Xilouris, K.M., Papamastorakis, J., Paleologou, E.V., Andredakis, Y., Haerendel, G.: Detection of optical emission in the area of G 127.1+0.5 270, 393
- Xilouris, K.M., see Papamastorakis, J., et al. 279, 536
- Xu Jiayan, Wang Hongqi, Li Dongming, Li Qi, Wang Zezhi, Zhao Gang, Zhang Jianwei, Wang Rui, Hu Hui: Modernization of the photoelectric astrolabe in China and primary results 271, 360
- Yakovleva, V.A., see Reshetnikov, V.P., et al. 275, 353 (99, 257)
- Yakovleva, V.A., see Reshetnikov, V.P., et al. 278, 351
- Yamaoka, H., Shigeyama, T., Nomoto, K.: Formation of double neutron star systems and asymmetric supernova explosions 267, 433
- Yamaoka, H., see Shigeyama, T., et al. 272, 737 (97, 223)
- Yamashita, T., see Heaton, B.D., et al. 278, 238
- Yan Li: Nonequilibrium effects of gas and radiation on Cepheids 276, 357
- Yang, G.-C., see Luo, L.-F., et al. 275, 192
- Yarri, A., see Tuchman, Y., et al. 271, 501
- Yassin, G., see Robson, M., et al. 277, 314
- Yates, M., see Gopal-Krishna, et al. 280, 360
- Yelle, R.V., see Hubbard, W.B., et al. 269, 541
- Yorke, H.W., see Kaisig, M., et al. 274, 757
- Yorke, H.W., see Preibisch, T., et al. 279, 577
- Young, E.C.M., see Zhou, Y.Y., et al. 267, 11
- Youssefi, K., see Feffer, P.T., et al. 272, 726 (97, 31)
- Yu, K.N., see Zhou, Y.Y., et al. 267, 11
- Yu, K.N., see Huang, R.Q. 267, 392
- Yu, K.N., see Cheng, K.S., et al. 275, 53
- Yudin, B., Munari, U.: The ellipsoidal shape of the M giant in T Coronae Borealis 270, 165
- Yue-hua Ma, see Xiao-qing Li 270, 534
- Yulan Yang, see Qingyao Liu, et al. 279, 336 (101, 253)
- Zaal, P., see Waters, L.B.F.M., et al. 272, L9
- Zachariades, H.A.: Numerical simulation of the aligned neutron-star magnetosphere 268, 705
- Zacharias, N., see de Veig, C., et al. 272, 755 (97, 985)
- Zachilas, L.G.: Complex instability 272, 750 (97, 549)
- Zadnik, M.G., see Blair, D.G. 278, 669
- Zaggia, S., see Tenjes, P., et al. 275, 61
- Zaggia, S.R., Capaccioli, M., Piotto, G.: High resolution kinematics of galactic globular clusters. II. On the significance of velocity dispersion measurements 278, 415
- Zamorani, G., see Hasinger, G., et al. 275, 1
- Zanin, F., see Bossi, M., et al. 269, 343
- Zaninetti, L.: Dynamical Voronoi tessellation. IV. The distribution of the asteroids 276, 255
- Zappalà, R.A., see Lanza, A.F., et al. 269, 351
- Zappalà, V., see Bendjoya, P., et al. 272, 651
- Zdanavicius, K., see Hubbard, W.B., et al. 269, 541
- Zeilinger, W.W., see Stiavelli, M., et al. 277, 421
- Zeilinger, W.W., see Buson, L.M., et al. 280, 409
- Zeppen, C.J., see Cunto, W., et al. 275, L5
- Zeppen, C.J., see Biémont, E., et al. 280, 348 (102, 435)
- Zemskov, V., see Olive, J.-F., et al. 272, 743 (97, 325)
- Zemskov, V.M., see Leikov, N.G., et al. 272, 744 (97, 345)
- Zenner, S., Lenzen, R.: Near-infrared images of IRAS galaxies 279, 337 (101, 363)
- Zensus, A., see Wagner, S.J., et al. 271, 344
- Zensus, A., see Lerner, M.S., et al. 280, 117
- Zensus, J.A., see Alberdi, A., et al. 271, 93
- Zensus, J.A., see Krichbaum, T.P., et al. 274, L37
- Zensus, J.A., see Carrara, E.A., et al. 279, 83
- Zerbi, F., see Poretti, E. 268, 369
- Zhai, D., see Catala, C., et al. 275, 245

- Zhang, F.J., see Akujor, C.E., et al. 274, 752
- Zhang, J.L., Chau, W.Y., Cheng, K.S., Chan, K.K.: A dynamical determination of the density of galactic halos formed from seeded dark matter 273, 95
- Zhang, X., Zhen, Y., Chen, H., Wang, S.: The Miyun 232 MHz Survey. I. Fields centred at: α : 00^hm, δ : 41°12' and α : 07^hm, δ : 35°00' 275, 356 (99, 545)
- Zhang, Y.H., see Xie, G.Z., et al. 278, 6
- Zhang Jianwei, see Xu Jiayan, et al. 271, 360
- Zhao, F., see Stahl, O., et al. 274, 1016 (99, 165)
- Zhao, G., see Magain, P. 268, L27
- Zhao, J.L., Tian, K.P., Pan, R.S., He, Y.P., Shi, H.M.: Study of proper motions in the region of the open cluster M 67 and membership of stars 276, 327 (100, 243)
- Zhao Gang, see Xu Jiayan, et al. 271, 360
- Zhen, Y., see Zhang, X., et al. 275, 356 (99, 545)
- Zhong, S.H., see Li, K.J., et al. 269, 496
- Zhou, J.W., see Coron, N., et al. 278, L31
- Zhou, Y.Y., Hu, Y.D., Yu, K.N., Young, E.C.M.: The contribution of quasars to the cosmic X-ray background 267, 11
- Zhugzhda, Y.D., Dzhalilov, N.S., Staude, J.: Radiation-hydrodynamic waves in an optically non-grey atmosphere 278, L9
- Zickgraf, F.-J., see Szeifert, T., et al. 280, 508
- Zięba, S., see Chyży, K.T. 267, L27
- Zigao Dai, Tan Lu, Qiuhe Peng: The influence of a strong magnetic field on electron capture in an accreting neutron star 272, 705
- Zimmer, G., see Feffer, P.T., et al. 272, 726 (97, 31)
- Zimmerman, J.-P., see Ferlet, R., et al. 267, 137
- Zinchenko, I., Forsström, V., Mattila, K.: An unusual case of HCN hyperfine anomalies in S 76E 275, L9
- Zinnecker, H., see Haas, M., et al. 269, 282
- Zinnecker, H., see Henning, T., et al. 276, 129
- Zinnecker, H., see Reipurth, B. 278, 81
- Zinnecker, H., see Leinert, C., et al. 278, 129
- Zinnecker, H., see Preibisch, T., et al. 279, L33
- Zirakashvili, V.N., see Ptuskin, V.S., et al. 268, 726
- Ziskin, D., see Deleuil, M., et al. 267, 187
- Zoler, D., see Cuperman, S., et al. 270, 480
- Zsoldos, E.: Photometry of yellow semiregular variables: AC Herculis, R Sagittae and V Vulpeculae 268, 149
- Zsoldos, E., Fernie, J.D., Arellano Ferro, A., Seager, S.: The double-mode semiregular variable UU Herculis: 1990–1992 photometry 275, 484
- Zsoldos, E.: V 487 Cassiopeiae (HD 6474): a UU Herculis variable in the galactic plane? 280, 177
- Zuccarello, F.: Influence of the lifetime parameter on the rotation rate of sunspots 272, 587
- Zuckerman, B., see Kastner, J.H., et al. 275, 163
- Zuckerman, B.: Carbon stars with excess emission at 60 μ m wavelength 276, 367
- Zuo, L.: A semi-analytic method for calculating D_A evolution 278, 343
- Zwarthoed, G.A.A., see Penninx, W., et al. 267, 92
- Zwarthoed, G.A.A., Stewart, R., Penninx, W., van Paradijs, J., van der Klis, M., Roy, A.L., Amy, S.W.: Radio observations of the low-mass X-ray binary 2S 0921–630 267, 101
- Zwerger, T., see Janka, H.-T., et al. 268, 360
- Zybin, K.P., see Dogiel, V.A., et al. 268, 356
- Życki, P., see Gil, J.A., et al. 272, 207
- Zylka, R., see Krichbaum, T.P., et al. 274, L37
- Zylka, R., see Guélin, M., et al. 279, L37
- Zylka, R., see Gordon, M.A., et al. 280, 208

Annual Subject Index

Astronomy and Astrophysics, Volumes 267–280 (1993) Supplement Series, Volumes 97–102 (1993)

Volume and page numbers of articles published in the Supplement Series are printed in *italics*

The cross references for the key words are stored in the computer. Therefore they are always printed, even if in the respective year no paper belonging to a particular cross reference is published.

Acceleration of particles

- Short optical bursts and acceleration to TeV energies in AE Aquarii
de Jager, O.C., Meintjes, P.J. **268**, L1
- Mixed shocks: spectral selection of the class of solutions
Lehoucq, R., Roland, J., Pelletier, G. **268**, 93
- Separation of chemical elements and isotopes in chemically peculiar stellar atmospheres by the light-induced drift effect
Nasyrov, K.A., Shalagin, A.M. **268**, 201
- Diffusive first and second order Fermi acceleration at parallel shock waves
Ostrowski, M., Schlickeiser, R. **268**, 812
- A comment on second-order Fermi acceleration
Schneider, P. **269**, L13
- Daily spectra of radio flares from SS 433 in May/June 1987
Vermeulen, R.C., McAdam, W.B., Trushkin, S.A., Facondi, S.R., Fiedler, R.L., Hjellming, R.M., Johnston, K.J., Corbin, J. **270**, 189
- Cosmic rays. I. The cosmic ray spectrum between 10^4 GeV and 3 10^9 GeV
Biermann, P.L. **271**, 649
- A note on runaway electrons in the presence of kinetic Alfvén waves
de Assis, A.S., de Azevedo, C.A. **271**, 675
- Extragalactic ultra-high energy cosmic rays. I. Contribution from hot spots in FR-II radio galaxies
Rachen, J.P., Biermann, P.L. **272**, 161
- A model for TeV gamma-ray emission from AM Herculis
Kaul, C.L., Kaul, R.K., Bhat, C.L. **272**, 501
- X-rays from supernova remnants with particle acceleration
Dorfi, E.A., Böhringer, H. **273**, 251
- Extragalactic ultra-high energy cosmic rays. II. Comparison with experimental data
Rachen, J.P., Stanev, T., Biermann, P.L. **273**, 377
- Interaction of charged particles with gravitational waves of various polarizations and directions of propagation
Kleidis, K., Varvoglis, H., Papadopoulos, D. **275**, 309
- Particle acceleration by multiple shocks at the hot spots of extragalactic radio sources
Anastasiadis, A., Vlahos, L. **275**, 427
- A study of the evolution of electron and ion acceleration during the 09:09 UT solar flare on 1989 September 9
Chupp, E.L., Trotter, G., Marschhäuser, H., Pick, M., Soru-Escut, I., Rieger, E., Dunphy, P.P. **275**, 602
- Cosmic rays. III. The cosmic ray spectrum between 1 GeV and 10^4 GeV and the radio emission from supernova remnants
Biermann, P.L., Strom, R.G. **275**, 659
- Stochastic particle acceleration at parallel astrophysical shock waves
Schlickeiser, R., Campeanu, A., Lerche, I. **276**, 614
- Cosmic rays. II. Evidence for a magnetic rotator Wolf-Rayet star origin
Biermann, P.L., Cassinelli, J.P. **277**, 691

Diffusive particle acceleration by an ensemble of shock waves

Schneider, P. **278**, 315

Electron acceleration due to beam flux increase in a converging magnetic field

Karlický, M., Hénoux, J.C. **278**, 627

Accretion, accretion disks

A 59^m photometric period in the dwarf nova V 485 Centauri

Augusteijn, T., van Kerwijk, M.H., van Paradijs, J. **267**, L55

Viscous-thermal evolution of free accretion disks around new born neutron stars

Mineshige, S., Nomoto, K., Shigezuma, T. **267**, 95

An empirical torque noise and spin-up model for accretion-powered X-ray pulsars

Baykal, A., Ögelman, H. **267**, 119

Multiple-peaked line profiles from relativistic disks at high inclination angles

Matt, G., Perola, G.C., Stella, L. **267**, 643

The effect of convection on two temperature soft photon Comptonized accretion disks

Meirelles Filho, C. **267**, 651

Short optical bursts and acceleration to TeV energies in AE Aquarii

de Jager, O.C., Meintjes, P.J. **268**, L1

Lyman α emission in spectra of Herbig Ae stars. An indication of accretion?

Blondel, P.F.C., Talavera, A., Tjin A Djie, H.R.E. **268**, 624

A spectroscopic study of the Z Camelopardalis type dwarf nova KT Persei

Ratering, C., Bruch, A., Diaz, M. **268**, 694

Molecular clouds as tracers of the dynamics in the central region of the galaxy

von Linden, S., Duschl, W.J., Biermann, P.L. **269**, 169

High resolution radio map of the X-ray binary LSI +61°303

Massi, M., Paredes, J.M., Estalella, R., Felli, M. **269**, 249

Hydrogen and helium shell flashes on massive accreting white dwarfs

José, J., Hernanz, M., Isern, J. **269**, 291

Old isolated neutron stars: fire burns and cauldron bubbles

Treves, A., Colpi, M., Lipunov, V.M. **269**, 319

Discovery of a variable super soft X-ray source in the Large Magellanic Cloud during the ROSAT All-Sky Survey

Schaeidt, S., Hasinger, G., Trümper, J. **270**, L9

Dynamo-driven accretion in galaxies

Rüdiger, G., Elstner, D., Schultz, M. **270**, 53

A rotating black hole in the galactic center

Falcke, H., Biermann, P.L., Duschl, W.J., Mezger, P.G. **270**, 102

Magnetic flares near accreting black holes

Volwerk, M., van Oss, R.F., Kuijpers, J. **270**, 265

Accretion disk flares in energetic radiation fields. A model for hard X-rays from black hole candidates

van Oss, R.F., van den Oord, G.H.J., Kuperus, M. **270**, 275

Variability of the Seyfert galaxy Mkn 766 in the ROSAT All Sky Survey

Molendi, S., Maccacaro, T., Schaeidt, S. **271**, 18

Structure and spectra of accretion disks in the innermost parts of active galaxies

Störzer, H. **271**, 25

Constraints on the illumination model for soft X-ray transients

Gontikakis, C., Hamewy, J.-M. **271**, 118

Effects of spiral shocks on disk emission lines

Chakrabarti, S.K., Wiita, P.J. **271**, 216

NGC 5548: a perfect laboratory for testing AGN models?

Rokaki, E., Collin-Souffrin, S., Magnan, C. **272**, 8

- Image generation in Kerr geometry. I. Analytical investigations on the stationary emitter-observer problem
Viergutz, S.U. **272**, 355
- The influence of a strong magnetic field on electron capture in an accreting neutron star
Zigao Dai, Tan Lu, Qiuhe Peng **272**, 705
- SIGMA observations of bright X-ray binaries
Laurent, P., Claret, A., Cordier, B., Lebrun, F., Denis, M., Bouchet, L., Lei, F., Barret, D., Churazov, E., Gilfanov, M., Sunyaev, R., Diachkov, A., Khavenson, N., Kremnev, R., Sukhanov, K., Kuleshova, N. **272**, 737 (**97**, 225)
- Hard X-rays from binaries
Hameury, J.-M. **272**, 738 (**97**, 235)
- Mechanisms of hard X-ray emission from accreting neutron stars
Kluźniak, W. **272**, 739 (**97**, 265)
- A ROSAT observation of the black hole candidate GRO J0422+32
Pietsch, W., Haberl, F., Gehrels, N., Petre, R. **273**, L11
- HS 0209+0832: a DAB white dwarf with a temperature fitting into the DB gap
Jordan, S., Heber, U., Engels, D., Koester, D. **273**, L27
- An accretion induced collapse model for the eclipsing binary pulsar PSR 1718-19
Ergma, E. **273**, L38
- Ram-pressure accretion of intergalactic gas clouds by galaxies
Sofue, Y., Wakamatsu, K. **273**, 79
- Compton modelling of spectral variations observed in Z sources
Schulz, N.S., Wijers, R.A.M.J. **273**, 123
- Coronal structures of α -disk models
Tschäpe, R., Kley, W. **273**, 169
- Torus dynamos for galaxies and accretion disks. I. The axisymmetric $\alpha\omega$ -dynamo embedded into vacuum
Deinzer, W., Gresser, H., Schmitt, D. **273**, 405
- Erratum: The nature of the X-ray spectrum of VW Hydr
van Teeseling, A., Verbunt, F., Heise, J. **273**, 721
- The ROSAT detection of RS Ophiuchi at quiescence
Orio, M. **274**, L41
- Tidally-induced warps in T Tauri disks. I. First-order perturbation theory
Terquem, C., Bertout, C. **274**, 291
- Rotational evolution of magnetic T Tauri stars with accretion discs
Cameron, A.C., Campbell, C.G. **274**, 309
- H α outbursts of μ Centauri: a clue to the Be phenomenon?
Hanuschik, R.W., Dachs, J., Baudzus, M., Thimm, G. **274**, 356
- UV spectral variability in the Herbig Ae star HR 5999. XI. The accretion interpretation
Pérez, M.R., Grady, C.A., Thé, P.S. **274**, 381
- Relativistic theory of radiative transfer: time-dependent radiation moment equations
Park, M.-G. **274**, 642
- On instabilities in magnetized accretion disks
Dubrulle, B., Knobloch, E. **274**, 667
- Magnetic buoyancy in accretion disks
Torkelsson, U. **274**, 675
- A self-consistent solution for an accretion disc structure around a rapidly rotating non-magnetized star
Bisnovatyi-Kogan, G.S. **274**, 796
- The accreting circumstellar gas envelope of HD 176386 a young star in the R Coronae Austrinae star formation region
Grady, C.A., Pérez, M.R., Thé, P.S. **274**, 847
- Axisymmetric accretion flow past large, gravitating bodies
Shankar, A., Kley, W., Burkert, A. **274**, 955
- Molecular clouds close to the Galactic Center
Biermann, P.L., Duschl, W.J., von Linden, S. **275**, 153
- Strömgren photometry of dwarf novae
Echevarría, J., Costero, R., Michel, R. **275**, 201
- Clues to the structure of the boundary layer in cataclysmic variables from observations of the flickering
Bruch, A., Duschl, W.J. **275**, 219
- Accretion disks around T Tauri stars. IV. The disk-star boundary layer
Bertout, C., Bouvier, J., Duschl, W.J., Tscharnuter, W.M. **275**, 236
- Compton scattering of polarized light in two-phase accretion discs
Poutanen, J., Vilhu, O. **275**, 337
- Variable redshifted He I absorption lines in BM Andromedae
Guenther, E., Hessman, F.V. **276**, L25
- Magnetized accretion-ejection structures. I. General statements
Ferreira, J., Pelletier, G. **276**, 625
- Magnetized accretion-ejection structures. II. Magnetic channeling around compact objects
Ferreira, J., Pelletier, G. **276**, 637
- Structure and evolution of X-ray heated compact binaries
Hameury, J.-M., King, A.R., Lasota, J.-P., Raison, F. **277**, 81
- Do molecular clouds contain accreting black holes?
Campana, S., Pardi, M.C. **277**, 477
- In quest of the secondary in the optical spectrum of the interacting binary V 367 Cygni
Schneider, H., Pavlovski, K., Planinić, M., Ivezić, Ž. **277**, 480
- The Galactic Center radio jet
Falcke, H., Mannheim, K., Biermann, P.L. **278**, L1
- The evidence for anisotropy of the ionizing continuum of NGC 4151
Schulz, H., Komossa, S. **278**, 29
- Optical/UV counterpart of the supersoft transient X-ray source RX J0513.9-6951 in the Large Magellanic Cloud
Pakull, M.W., Motch, C., Bianchi, L., Thomas, H.-C., Guibert, J., Beaulieu, J.P., Grison, P., Schaeidt, S. **278**, L39
- Low-mass X-ray binary models for the supersoft X-ray sources CAL 83, CAL 87 and RX J0527.8-6954 in the Large Magellanic Cloud
Kylafis, N.D., Xilouris, E.M. **278**, L43
- The observability of old isolated neutron stars with ROSAT. II. Molecular clouds and deep fields
Colpi, M., Campana, S., Treves, A. **278**, 161
- Can high-energy γ -ray photons escape from the radiation field emitted by an accretion disk?
Bednarek, W. **278**, 307
- "Glitches" in soft X-ray transients: Echoes of the main burst?
Augusteijn, T., Kuulkers, E., Shaham, J. **279**, L13
- The discovery and properties of the ultra-soft X-ray transient EXO 1846-031
Parmar, A.N., Angelini, L., Roche, P., White, N.E. **279**, 179
- Walraven photometry of eight cataclysmic variables
Hollander, A., Kraakman, H., van Paradijs, J. **279**, 680 (**101**, 87)
- Broad-band X-ray observations of the GRO J0422+32 X-ray nova by the "Mir-Kvant" observatory
Sunyaev, R.A., Kaniovsky, A.S., Borozdin, K.N., Efremov, V.V., Aref'ev, V.A., Melioransky, A.S., Skinner, G.K., Pan, H.C., Kendziorra, E., Maisack, M., Döbereiner, S., Pietsch, W. **280**, L1
- Dynamics of slender fluxtubes in accretion disks. I. Basic theory
Schramkowski, G.P., Achterberg, A. **280**, 313
- Our galactic center: a laboratory for the feeding of active galactic nuclei
von Linden, S., Biermann, P.L., Duschl, W.J., Lesch, H., Schmutzler, T. **280**, 468
- The role of the secondary's rotation in disc formation and structure: an SPH three-dimensional analysis
Belvedere, G., Lanzafame, G., Molteni, D. **280**, 525

Artificial satellites, space probes

- Doppler tracking of spacecraft with multi-frequency links
Bertotti, B., Comoretto, G., Iess, L. **269**, 608
- Overview of two-year observations with SIGMA on board GRANAT
Mandrou, P., Jourdain, E., Bassani, L., Vedrenne, G., Paul, J., Leray, J.-P., Lebrun, F., Ballet, J., Churazov, E., Gilfanov, M., Sunyaev, R., Bogomolov, A., Khavenson, N., Kuleshova, N., Tserenin, I., Sukhanov, K. **272**, 724 (97, 1)
- The Compton Gamma Ray Observatory
Gehrels, N., Chipman, E., Kniffen, D.A. **272**, 724 (97, 5)
- Initial results from OSSE on the Compton Observatory
Johnson, W.N., Kurfess, J.D., Purcell, W.R., Matz, S.M., Ulmer, M.P., Strickman, M.S., Murphy, R.J., Grabelsky, D.A., Kinzer, R.L., Share, G.H., Cameron, R.A., Kroeger, R.A., Maisack, M., Jung, G.V., Jensen, C.M., Clayton, D.D., Leising, M.D., Grove, J.E., Dyer, C.S. **272**, 725 (97, 21)
- An overview of first results from COMPTEL
Schönfelder, V., Aarts, H.J.M., Bennett, K., Bloemen, H., de Boer, H., Busetta, M., Collmar, W., Connors, A., Diehl, R., den Herder, J.W., Hermsen, W., Kuiper, L., Licht, G.G., Lockwood, J., Macri, J., McConnell, M., Morris, D., Much, R., Ryan, J., Simpson, G., Stacy, J.G., Steinle, H., Strong, A.W., Swanenburg, B.N., Taylor, V., Varendorff, M., de Vries, C., Webber, W., Winkler, C. **272**, 725 (97, 27)
- Ulysses precise localizations of gamma-ray bursts
Hurley, K., Sommer, M., Boer, M., Niel, M., Laros, J., Fenimore, E.E., Klebesadel, R., Fishman, G.J., Kouveliotou, C., Meegan, C., Paciesas, W.S., Wilson, R., Cline, T. **272**, 726 (97, 39)
- X-ray timing explorer mission
Bradt, H.V., Rothschild, R.E., Swank, J.H. **272**, 745 (97, 355)
- High energy spectroscopy with the AXAF
Holt, S.S. **272**, 745 (97, 367)
- SAX overview
Scarsi, L. **272**, 745 (97, 371)
- SIXE (Spanish-Italian X-ray Experiment)
Giovannelli, F., Sabau Grazzati, L., La Padula, C., Errico, L., Frutti, M., Inarta, S., Mancini, D., Marcozzi, S., Porzio, V., Vittonne, A.A. **272**, 747 (97, 395)
- X-ray polarimetry of AGNs with SXP
Massaro, E., Matt, G., Perola, G.C., Costa, E., Piro, L., Soffitta, P. **272**, 747 (97, 399)
- Monte Carlo simulation of hexagonal geometry for the INTERNATIONAL Gamma-Ray Astrophysics Laboratory
Sanchez, F., Uso, J.L., Reglero, V., Ferrero, J.L., Ruiz, J.A. **272**, 747 (97, 401)
- A new method for determining the $^3\text{He}/^4\text{He}$ ratio in the local interstellar medium
Lemoine, M., Vidal-Madjar, A., Ferlet, R. **273**, 611
- Extreme ultra violet plasma diagnostic: a test using EUVE calibration data
Landini, M., Monsignori Fossi, B.C. **275**, L17
- Bright blue stars in Vela observed with the "Glazar" space telescope
Tovmassian, H.M., Hovhannessian, R.K., Epremian, R.A., Huguenin, D. **277**, 362 (100, 501)
- The observability of old isolated neutron stars with ROSAT. II. Molecular clouds and deep fields
Colpi, M., Campana, S., Treves, A. **278**, 161
- Long-periodic albedo perturbations on LAGEOS
Vokrouhlický, D., Farinella, P., Lucchesi, D. **280**, 282
- Solar radiation pressure perturbations for Earth satellites. I. A complete theory including penumbra transitions
Vokrouhlický, D., Farinella, P., Mignard, F. **280**, 295

Astrometry

- Orbital elements of the eight major satellites of Saturn determined from a fit of their theories of motion to observations from 1886 to 1985
Dourneau, G. **267**, 292
- The dynamics of Martian satellites from observations
Emelyanov, N.V., Vashkovyakov, S.N., Nasonova, L.P. **267**, 634
- Preliminary analysis of CCD observations of Saturn's satellites
Beurle, K., Harper, D., Jones, D.H.P., Murray, C.D., Taylor, D.B., Williams, I.P. **269**, 564
- Modernization of the photoelectric astrolabe in China and primary results
Xu Jiayan, Wang Hongqi, Li Dongming, Li Qi, Wang Zezhi, Zhao Gang, Zhang Jianwei, Wang Rui, Hu Hui **271**, 360
- Iterative methods used in overlap astrometric reduction techniques do not always converge
Rapaport, M., Ducourant, C., Colin, J., Le Campion, J.F. **271**, 645
- Improvements in the use of daytime star observations from a transit circle
Rafferty, T.J., Loader, B.R. **271**, 727
- Astrometry in the field of M 31
Magnier, E.A., Lewin, W.H.G., van Paradijs, J., Hasinger, G., Pietsch, W., Trümper, J. **272**, 695
- Characteristics of the catalogue of positions for 223 PZT-Ondrejov-programme stars
Sadžakov, S., Dačić, M., Cvetković, Z. **272**, 747 (97, 417)
- New double stars (23rd series) discovered at Nice with the 50 cm refractor (Text in French)
Couteau, P. **272**, 749 (97, 511)
- Optical positions of selected radio stars from circumzenithal observations
Pešek, I. **272**, 752 (97, 777)
- CPC2 – the Second Cape Photographic Catalogue. I. History, observations and plate measurements
de Vegt, C., Murray, C.A., Zacharias, N., Nicholson, W., Penston, M.J., Clube, S.V.M. **272**, 755 (97, 985)
- Determination of field distortion by a plate-overlap method
Abad, C. **273**, 350 (98, 1)
- Kinematics of the Galaxy's stellar populations from a proper motion survey
Soubiran, C. **274**, 181
- Systematic deformations of the apparent almucantar as derived from Danjon astrolabes in Paris and Santiago de Chile
Pešek, I., Vondrák, J., Chollet, F., Noël, F. **274**, 621
- Identification and morphology of optically faint extragalactic IRAS sources
Klaas, U., Elsässer, H. **274**, 1015 (99, 71)
- Digital image centering with the maximum likelihood method
Lu Chun-Lin **275**, 349
- Orbital elements of 19 double stars (Text in French)
Baize, P. **275**, 353 (99, 205)
- The solar motion. III. From space velocities
Jaschek, C., Valbousquet, A. **275**, 472
- Accurate procedure for deriving UT1 at a submilliarcsecond accuracy from Greenwich Sidereal Time or from the stellar angle
Capitaine, N., Gontier, A.-M. **275**, 645
- Study of proper motions in the region of the open cluster M 67 and membership of stars
Zhao, J.L., Tian, K.P., Pan, R.S., He, Y.P., Shi, H.M. **276**, 327 (100, 243)

- Optical positions and 327 MHz flux-densities of UGC galaxies in selected Westerbork fields
Oly, C., Israel, F.P. **276**, 327 (**100**, 263)
- The new astrolabe of Santiago (Chile): description of the instrument and first results (*Text in French*)
Chollet, F., Noël, F. **276**, 655
- CCD astrometry and instrumental ΔV photometry of wide visual double stars. III. Differential measurements of often observed southern pairs
van Dessel, E., Sinachopoulos, D. **277**, 362 (**100**, 517)
- Member stars of the open cluster Mel 111 in Coma Berenices (*Text in French*)
Bounatiro, L. **277**, 362 (**100**, 531)
- Erratum: Member stars of the open cluster Mel 111 in Coma Berenices (*Text in French*)
Bounatiro, L. **277**, 362 (**102**, 673)
- Very low mass proper motion members in the Pleiades
Hambly, N.C., Hawkins, M.R.S., Jameson, R.F. **277**, 364 (**100**, 607)
- Micrometer measurements of visual double stars made at the Spanish observatories at Calar Alto and Fabra
Docobo, J.A., Prieto, C. **277**, 364 (**100**, 641)
- Extinction and the wavelength-dependent positions of the nuclei of NGC 6240
Schulz, H., Fried, J.W., Röser, S., Keel, W.C. **277**, 416
- Parallactic variation of gravitational lensing and measurement of stellar mass
Hosokawa, M., Ohnishi, K., Fukushima, T., Takeuti, M. **278**, L27
- Hubble space telescope astrometric observations of pre-main sequence stars from the HIPPARCOS program
Bernacca, P.L., Lattanzi, M.G., Bucciarelli, B., Bastian, U., Barbato, G., Pannunzio, R., Badiali, M., Cardini, D., Emanuele, A. **278**, L47
- Spectrum of the Bordeaux transit circle residuals
Benevides-Soares, P., Teixeira, R., Réquière, Y. **278**, 293
- Field astrometry using orthogonal functions
Bienaymé, O. **278**, 301
- Determination of atmospheric refraction from the distortion of the Sun's disc
Gyori, L. **278**, 659
- On the evolution of binary Earth-approaching asteroids
Farinella, P., Chauvineau, B. **279**, 251
- Hipparcos link with Carte du Ciel triple images
Dick, W.R., Tucholke, H.-J., Brosche, P., Galas, R., Geffert, M., Guibert, J. **279**, 267
- Observations and ephemeris of Saturn between 1970 and 1978 (*Text in French*)
Sanchez, M., Débarbat, S., Chollet, F. **279**, 677 (**101**, 573)
- Anomalous proper motions in the Cygnus Superbubble region
Comerón, F., Torra, J., Jordi, C., Gómez, A.E. **279**, 679 (**101**, 37)
- Experimental campaign of solar observation in 1991 with the ROA astrolabe (*Text in French*)
Sánchez, M., Moreno, F., Parra, F., Soler, M. **280**, 333
- Observations of the Sun during 1990–1992 with the astrolabe of Santiago
Noël, F. **280**, 343 (**102**, 11)
- Optical counterpart of galactic plane variable radio sources
Paredes, J.M., Martí, J., Jordi, C., Trullols, E., Peracaula, M. **280**, 347 (**102**, 381)
- Corrections to FK4 positions of stars observed at Paris astrolabe (1962–1980) (*Text in French*)
Najid, N.-E. **280**, 347 (**102**, 389)
- Double star measurements made at Nice (*Text in French*)
Muller, P. **280**, 350 (**102**, 643)
- Proper motion probe of the Galaxy in the anticentre direction
Chareton, M., Considère, S., Bienaymé, O. **280**, 350 (**102**, 649)
- A global analysis method for astrolabe observations (*Text in French*)
Chollet, F. **280**, 675
- Astronomical data bases: miscellaneous**
- Monitoring of very rapid changes in the optical spectrum of SS433 in May/June 1987
Vermeulen, R.C., Murdin, P.G., van den Heuvel, E.P.J., Fabrika, S.N., Wagner, R.M., Margon, B., Hutchings, J.B., Schilizzi, R.T., van Kerkwijk, M.H., van den Hoek, L.B., Ott, E., Angebault, L.P., Miley, G.K., D'Odorico, S., Borisov, N. **270**, 204
- TOPbase at the CDS
Cunto, W., Mendoza, C., Ochsenbein, F., Zeippen, C.J. **275**, L5
- CCD sequences for the calibration of southern hemisphere survey plates. I
Demers, S., Lamontagne, R., Wesemael, F., Fontaine, G., Barnéoud, R., Irwin, M.J. **275**, 355 (**99**, 437)
- CCD sequences for the calibration of southern hemisphere survey plates. II
Demers, S., Lamontagne, R., Wesemael, F., Fontaine, G., Barnéoud, R., Irwin, M.J. **275**, 355 (**99**, 461)
- StarGuides. A directory of astronomy, space sciences and related organizations of the world (Announcement of a catalogue)
Heck, A. **280**, 344 (**102**, 85)
- StarBriefs. A dictionary of abbreviations, acronyms, and symbols in astronomy, space sciences, and related fields (Announcement of a catalogue)
Heck, A. **280**, 344 (**102**, 87)
- Atlases**
- An atlas of supernova remnant candidates in Messier 31
Braun, R., Walterbos, R.A.M. **273**, 355 (**98**, 327)
- Light curves of type II Supernovae. I. The atlas
Patat, F., Barbon, R., Cappellaro, E., Turatto, M. **274**, 1011 (**98**, 443)
- Long-term spectroscopic monitoring of P Cygni-type stars. I. Spectral atlas of P Cygni
Stahl, O., Mandel, H., Wolf, B., Gäng, T., Kaufer, A., Kneer, R., Szeifert, T., Zhao, F. **274**, 1016 (**99**, 165)
- The VLA-WSRT survey of M 33: statistical properties of a sample of optically selected supernova remnants
Duric, N., Viallefond, F., Goss, W.M., van der Hulst, J.M. **275**, 353 (**99**, 217)
- MWC 560: spectral atlas for the region 3600 Å–4900 Å
Kolev, D., Tomov, T. **275**, 687 (**100**, 1)
- Near-infrared images of IRAS galaxies
Zenner, S., Lenzen, R. **279**, 337 (**101**, 363)
- An atlas of Balmer lines (H δ and H γ)
Cananzi, K., Augarde, R., Lequeux, J. **279**, 678 (**101**, 599)
- A spectral atlas of the Herbig Ae star AB Aurigae. The visible domain from 391 to 874 nm
Böhm, T., Catala, C. **279**, 678 (**101**, 629)
- IRAS CPC observations of galaxies. I. Catalog and atlas
van Driel, W., de Graauw, T., de Jong, T., Wesselius, P.R. **279**, 681 (**101**, 207)
- An atlas of high resolution line profiles of symbiotic stars. I. Coudé echelle spectrometry of southern objects and a classification system of H α line profiles
Van Winckel, H., Duerbeck, H.W., Schwarz, H.E. **280**, 348 (**102**, 401)

Atmospheric effects

Properties of the atmospheric noise in full-disk photometric observations of solar oscillations: implications for asteroseismology from the ground

Clette, F. **267**, 577

Spurious effects in the presence of a variable extinction coefficient in photoelectric photometry

Poretti, E., Zerbi, F. **268**, 369

On the reduction of narrow-band photometry

Manfroid, J. **271**, 714

Correction of spectra for telluric absorption lines with the help of a molecular data bank and high resolution forward modelling: H₂O lines around the sodium doublet at 589.5 nm

Lallement, R., Bertin, P., Chassefière, E., Scott, N. **271**, 734

Systematic deformations of the apparent almucantar as derived from Danjon astrolabes in Paris and Santiago de Chile

Pešek, I., Vondrák, J., Chollet, F., Nožl, F. **274**, 621

Oscillations in sunspots near the solar limb and the influence of seeing effects

Federspiel, M., Mattig, W. **276**, 227

The ESO atmospheric temporal coherence monitor dedicated to high angular resolution imaging

Lopez, B., Sarazin, M. **276**, 320

Isoplanatism and high spatial resolution solar imaging

Irbah, A., Borgnino, J., Laclare, F., Merlin, G. **276**, 663

Spectrum of the Bordeaux transit circle residuals

Benevides-Soares, P., Teixeira, R., Réquière, Y. **278**, 293

Determination of atmospheric refraction from the distortion of the Sun's disc

Gyori, L. **278**, 659

Long-periodic albedo perturbations on LAGEOS

Vokrouhlický, D., Farinella, P., Lucchesi, D. **280**, 282

Solar radiation pressure perturbations for Earth satellites. I. A complete theory including penumbra transitions

Vokrouhlický, D., Farinella, P., Mignard, F. **280**, 295

Atomic data

Stark broadening of C IV lines

Schöning, T. **267**, 300

The optical spectrum of Nova GQ Muscae 1983 from 1984 to 1988

Péquignot, D., Petitjean, P., Boisson, C., Krautter, J. **271**, 219

Elemental abundances of yttrium and zirconium in the mercury-man-ganese stars ϕ Herculis, κ Cancri and ι Coronae Borealis

Redfors, A., Cowley, C.R. **271**, 273

Line shapes in hydrogen opacities

Stehlé, C., Jacquemot, S. **271**, 348

A revision of the solar abundance of dysprosium

Grevesse, N., Noels, A., Sauval, A.J. **271**, 587

Innershell photoionization in the Be sequence: shake-up processes

Petrini, D., de Araújo, F.X. **271**, 679

X-ray emission from thin plasmas. I. Multiple Auger ionisation and fluorescence processes for Be to Zn

Kaastra, J.S., Mewe, R. **272**, 748 (**97**, 443)

Multiplet oscillator strengths for excited atomic magnesium

Hoang-Binh, D. **272**, 752 (**97**, 769)

Radiative lifetime measurements in Dy II and the solar abundance of dysprosium

Biémont, E., Lowe, R.M. **273**, 665

Ti-II transition probabilities and radiative lifetimes in Ti⁺ and the solar titanium abundance

Bizzarri, A., Huber, M.C.E., Noels, A., Grevesse, N., Bergeson, S.D., Tsekeris, P., Lawler, J.E. **273**, 707

Accurate wavelengths of near-infrared coronal lines from spectroscopic measurements of NGC 6302

Reconditi, M., Oliva, E. **274**, 662

Highly-excited levels of Fe I obtained from laboratory and solar Fourier transform and grating spectra. I. Energy levels

Nave, G., Johansson, S. **274**, 961

Accurate *f* values of astrophysical interest for neutral carbon

Hibbert, A., Biémont, E., Godefroid, M., Vaeck, N. **274**, 1016 (**99**, 177)

TOPbase at the CDS

Cunto, W., Mendoza, C., Ochsenbein, F., Zeippen, C.J. **275**, L5

Stark broadening of spectral lines of multicharged ions of astrophysical interest. VII. Al III lines

Dimitrijević, M.S., Sahal-Bréchet, S. **275**, 356 (**99**, 585)

Stark broadening of spectral lines of multicharged ions of astrophysical interest. VIII. VI lines

Dimitrijević, M.S., Sahal-Bréchet, S. **275**, 688 (**100**, 91)

The contribution of ion-atom radiative collisions to the opacity of the solar atmosphere

Mihajlov, A.A., Dimitrijević, M.S., Ignjatović, L.M. **276**, 187

Electron-impact widths of four- and five-times charged ion lines of astrophysical importance

Dimitrijević, M.S. **276**, 327 (**100**, 237)

The Mg I 8806 Å line in the spectra of late-type giant stars

Ruck, M.J., Smith, G. **277**, 165

Stark-Broadening parameters of spectral lines of astrophysical interest of neutral palladium

Dimitrijević, M.S. **277**, 363 (**100**, 593)

Transition probabilities in the lithium sequence

Martin, I., Karwowski, J., Dierksen, G.H.F., Barrientos, C. **277**, 363 (**100**, 595)

Stark broadening theory of solar Rydberg lines in the far-infrared spectrum

Van Regemorter, H., Hoang-Binh, D. **277**, 623

Atomic data from the IRON Project. I. Goals and methods

Hummer, D.G., Berrington, K.A., Eissner, W., Pradhan, A.K., Saraph, H.E., Tully, J.A. **279**, 298

Stark broadening of Bi II lines of astrophysical interest

Dimitrijević, M.S., Popović, L.Č. **279**, 677 (**101**, 583)

Stark broadening of spectral lines of multicharged ions of astrophysical interest. IX. FvII lines

Dimitrijević, M.S., Sahal-Bréchet, S. **279**, 677 (**101**, 587)

Wavelengths and transition probabilities of the 3d⁶-3d⁵4p and 3d⁵4s-3d⁵4p transition arrays of Fe III

Ekberg, J.O. **279**, 679 (**101**, 1)

Stark broadening of Zn II and Cd II spectral lines of astrophysical interest

Popović, L.Č., Vince, I., Dimitrijević, M.S. **280**, 343 (**102**, 17)

Highly-excited levels of Fe I obtained from laboratory and solar Fourier transform and grating spectra. II. Laboratory and solar identifications

Nave, G., Johansson, S. **280**, 346 (**102**, 269)

$\Delta n \leq 2$ allowed transitions in neutral sulphur within the visible and infrared spectral ranges

Biémont, E., Quinet, P., Zeippen, C.J. **280**, 348 (**102**, 435)

Stark widths of singly-ionized iron spectral lines

Purić, J., Djeniže, S., Srećković, A., Bukvić, S., Pivalica, S., Labat, J. **280**, 349 (**102**, 607)

Atomic processes

Infrared and submillimetric emission lines from the envelopes of dark clouds

Le Boulot, J., Pineau des Forêts, G., Roueff, E., Flower, D.R. **267**, 233

- Innershell photoionization in the Be sequence: shake-up processes
Petrini, D., de Araujo, F.X. **271**, 679
- X-ray emission from thin plasmas. I. Multiple Auger ionisation and fluorescence processes for Be to Zn
Kaastra, J.S., Mewe, R. **272**, 748 (97, 443)
- Effective radiative cooling in optically thin plasmas
Schmutzler, T., Tscharnuter, W.M. **273**, 318
- Accurate f values of astrophysical interest for neutral carbon
Hibbert, A., Biémont, E., Godefroid, M., Vaecck, N. **274**, 1016 (99, 177)
- The contribution of ion-atom radiative collisions to the opacity of the solar atmosphere
Mihajlov, A.A., Dimitrijević, M.S., Ignjatović, L.M. **276**, 187
- The polarized spectrum of hydrogen in the presence of electric and magnetic fields
Casini, R., Landi Degl'Innocenti, E. **276**, 289
- Stark broadening theory of solar Rydberg lines in the far-infrared spectrum
Van Regemorter, H., Hoang-Binh, D. **277**, 623
- Atomic data from the IRON Project. I. Goals and methods
Hummer, D.G., Berrington, K.A., Eissner, W., Pradhan, A.K., Saraph, H.E., Tully, J.A. **279**, 298
- A generalized version of the Rankine-Hugoniot relations including ionization, dissociation, radiation and related phenomena
Nieuwenhuijzen, H., de Jager, C., Cuntz, M., Lobel, A., Achmad, L. **280**, 195
- $\Delta n \leq 2$ allowed transitions in neutral sulphur within the visible and infrared spectral ranges
Biémont, E., Quinet, P., Zeippen, C.J. **280**, 348 (102, 435)
- Black hole physics**
- Multiple-peaked line profiles from relativistic disks at high inclination angles
Matt, G., Perola, G.C., Stella, L. **267**, 643
- A rotating black hole in the galactic center
Falcke, H., Biermann, P.L., Duschl, W.J., Mezger, P.G. **270**, 102
- Magnetic flares near accreting black holes
Volwerk, M., van Oss, R.F., Kuippers, J. **270**, 265
- Accretion disk flares in energetic radiation fields. A model for hard X-rays from black hole candidates
van Oss, R.F., van den Oord, G.H.J., Kuperus, M. **270**, 275
- Image generation in Kerr geometry. I. Analytical investigations on the stationary emitter-observer problem
Viergutz, S.U. **272**, 355
- Jets from mergers of binary black holes
Basu, D., Valtonen, M.J., Valtonen, H., Mikkola, S. **272**, 417
- Supernova-like mechanism for cosmic-ray origin in AGN
Dokuchaev, V.I., Karakula, S., Tkaczyk, W. **272**, 731 (97, 109)
- Gamma-rays from point sources and a universal energy spectrum
Tomozawa, Y. **272**, 731 (97, 117)
- EXITE observation of the Galactic center: a new transient?
Grindlay, J.E., Covault, C.E., Manandhar, R.P. **272**, 733 (97, 155)
- Two-year monitoring of persistent point sources in the Galactic center region at soft γ -ray energies with SIGMA
Cordier, B., Goldwurm, A., Leray, J.P., Paul, J., Bouchet, L., Mandrou, P., Niel, M., Roques, J.P., Churazov, E., Gilfanov, M., Sunyaev, R., Dyachkov, A., Khavenson, N., Kremnev, R., Sukhanov, K., Kuleshova, N. **272**, 734 (97, 177)
- X-ray variability of galactic black hole candidates
Mereghetti, S. **272**, 738 (97, 249)
- Observations of X-ray transient source GS 2023+338 with the TTM coded mask telescope
Pan, H.C., in't Zand, J.J.M., Skinner, G.K., Borozdin, K.N., Gilfanov, M.R., Sunyaev, R. **272**, 740 (97, 273)
- Observations of black hole candidates with GRANAT
Grebenev, S., Sunyaev, R., Pavlinsky, M., Churazov, E., Gilfanov, M., Dyachkov, A., Khavenson, N., Sukhanov, K., Laurent, P., Ballet, J., Claret, A., Cordier, B., Jourdain, E., Niel, M., Pelaez, F., Schmitz-Fraysse, M.C. **272**, 740 (97, 281)
- Nova Muscae 1991, an exciting dwarf X-ray transient
Lund, N. **272**, 741 (97, 289)
- SIGMA observations of the X-ray nova in Musca
Goldwurm, A., Ballet, J., Laurent, P., Paul, J., Jourdain, E., Bouchet, L., Mandrou, P., Roques, J.P., Churazov, E., Gilfanov, M., Sunyaev, R., Dyachkov, A., Khavenson, N., Kremnev, R., Sukhanov, K., Kuleshova, N. **272**, 741 (97, 293)
- A ROSAT observation of the black hole candidate GRO J0422+32
Pietsch, W., Haberl, F., Gehrels, N., Petre, R. **273**, L11
- Relativistic theory of radiative transfer: time-dependent radiation moment equations
Park, M.-G. **274**, 642
- Discovery of the optical counterpart of the soft X-ray transient GRO J0422+32
Castro-Tirado, A.J., Pavlenko, E.P., Shlyapnikov, A.A., Brandt, S., Lund, N., Ortiz, J.L. **276**, L37
- Do molecular clouds contain accreting black holes?
Campana, S., Pardi, M.C. **277**, 477
- The Galactic Center radio jet
Falcke, H., Mannheim, K., Biermann, P.L. **278**, L1
- "Glitches" in soft X-ray transients: Echoes of the main burst?
Augusteijn, T., Kuulkers, E., Shaham, J. **279**, L13
- The discovery and properties of the ultra-soft X-ray transient EXO 1846-031
Parmar, A.N., Angelini, L., Roche, P., White, N.E. **279**, 179
- Broad-band X-ray observations of the GRO J0422+32 X-ray nova by the "Mir-Kvant" observatory
Sunyaev, R.A., Kaniovsky, A.S., Borozdin, K.N., Efremov, V.V., Aref'ev, V.A., Melioransky, A.S., Skinner, G.K., Pan, H.C., Kendziorra, E., Maisack, M., Döbereiner, S., Pietsch, W. **280**, L1
- Catalogs**
- A statistical assessment of zero-polarization catalogues
Clarke, D., Naghizadeh-Khouei, J., Simmons, J.F.L., Stewart, B.G. **269**, 617
- Carbon stars in the Small Magellanic Cloud. II. Catalogue of 1707 objects with identifications and spectrophotometry
Rebeiro, E., Azzopardi, M., Westerlund, B.E. **272**, 751 (97, 603)
- A catalogue of radii of Be star line emitting regions
Jaschek, C., Jaschek, M. **272**, 753 (97, 807)
- A catalog of K giants at the south galactic pole: broadband and DDO photometry and radial velocities
Flynn, C., Freeman, K.C. **272**, 753 (97, 835)
- $uvby-\beta$ photometry of high-velocity and metal-poor stars. VI. A second catalogue, and stellar populations of the Galaxy
Schuster, W.J., Parrao, L., Contreras Martínez, M.E. **272**, 755 (97, 951)
- CPC2 - the Second Cape Photographic Catalogue. I. History, observations and plate measurements
de Vegt, C., Murray, C.A., Zacharias, N., Nicholson, W., Penston, M.J., Clube, S.V.M. **272**, 755 (97, 985)
- General study of group membership. I. The sample
Garcia, A.M., Paturel, G., Bottinelli, L., Gouguenheim, L. **273**, 350 (98, 7)

- Third supplement to the catalogue of observed periods of Ap stars
Catalano, F.A., Renzon, P., Leone, F. **273**, 354 (**98**, 269)
- The complete sample of 1 Jy BL Lacertae objects. II. Observational data
Stickel, M., Fried, J.W., Kühr, H. **274**, 1011 (**98**, 393)
- A catalogue of Jovian decametric radio observations from January 1988 to December 1990
Leblanc, Y., Gerbault, A., Denis, L., Lecacheux, A. **274**, 1012 (**98**, 529)
- CO and HCN observations of circumstellar envelopes. A catalogue. Mass loss rates and distributions
Loup, C., Forveille, T., Omont, A., Paul, J.F. **275**, 354 (**99**, 291)
- General study of group membership. II. Determination of nearby groups
Garcia, A.M. **275**, 687 (**100**, 47)
- A catalog of chromospherically active binary stars (second edition)
Strassmeier, K.G., Hall, D.S., Fekel, F.C., Scheck, M. **275**, 688 (**100**, 173)
- UBVRI photometry of FKSZ stars. IV.
Carrasco, G., Loyola, P. **277**, 361 (**100**, 489)
- UBV photometry of stars whose positions are accurately known. VII.
Oja, T. **277**, 363 (**100**, 591)
- Estimates of the accuracy of stellar physical parameters from inter-comparison of catalogues
Mal'uto, V. **278**, 73
- The exciting sources of Herbig-Haro objects. I. A catalogue of 1–20 μm observations
Molinari, S., Liseau, R., Lorenzetti, D. **279**, 680 (**101**, 59)
- IRAS CPC observations of galaxies. I. Catalog and atlas
van Driel, W., de Graauw, T., de Jong, T., Wesselius, P.R. **279**, 681 (**101**, 207)
- Long-term photometry of variables at ESO. II. The second data catalogue (1986–1990)
Sterken, C., Manfroid, J., Anton, K., Barzowski, A., Bibo, A., Bruch, A., Burger, M., Duerbeck, H.W., Duemmler, R., Heck, A., Hensberge, H., Hiesgen, M., Inklaar, F., Jorissen, A., Juettner, A., Kinkel, U., Liu Zongli, Mekaden, M.V., Ng, Y.K., Niarchos, P., Püttmann, M., Szeifert, T., Spiller, F., van Dijk, R., Vogt, N., Wanders, J. **280**, 344 (**102**, 79)
- Strömgren four-colour *uvby* photometry of G5-type HD stars brighter than $m_V = 8.6$
Olsen, E.H. **280**, 345 (**102**, 89)
- Corrections to FK4 positions of stars observed at Paris astrolabe (1962–1980) (*Text in French*)
Najid, N.-E. **280**, 347 (**102**, 389)
- A new catalogue of H α emission-line stars and small nebulae in the Small Magellanic Cloud
Meyssonnier, N., Azzopardi, M. **280**, 349 (**102**, 451)
- Proper motion probe of the Galaxy in the anticentre direction
Chareton, M., Considère, S., Bienaymé, O. **280**, 350 (**102**, 649)

Celestial mechanics, stellar dynamics

- The 1:1 resonance in galactic-type Hamiltonian systems
Caranicolas, N.D. **267**, 388
- The dynamics of Martian satellites from observations
Emelyanov, N.V., Vashkovyay, S.N., Nasonova, L.P. **267**, 634
- The Giotto encounter with comet P/Grigg-Skjellerup: first results from the Giotto Radio-Science Experiment
Pätzold, M., Edenhofer, P., Bird, M.K., Volland, H. **268**, L13
- The orbits of the major satellites of Saturn
Harper, D., Taylor, D.B. **268**, 326

- Orbital, precessional, and insolation quantities for the Earth from –20 Myr to +10 Myr
Laskar, J., Joutel, F., Boudin, F. **270**, 522
- The Kuzmin-Kutuzov two integral axisymmetric galaxy model revisited
Batsleer, P., Dejonghe, H. **271**, 104
- Periodic orbits close to that of the Moon
Valsecchi, G.B., Perozzi, E., Roy, A.E., Steves, B.A. **271**, 308
- Dynamics of comet P/Maury
Benest, D., Gonczi, R., Maury, A. **271**, 621
- Orbital anomalies of the periodic comets Brorsen, Finlay, and Schwassmann–Wachmann 2
Sekanina, Z. **271**, 630
- Solution of the N -body problem expanded into Taylor series of high orders. Applications to the solar system over large time range
Le Guyader, C. **272**, 687
- The Nordtvedt effect in the Trojan asteroids
Orellana, R.B., Vucetich, H. **273**, 313
- Dynamical friction induces perturbations on Oort cloud comets
Brunini, A. **273**, 684
- Tidally-induced warps in T Tauri disks. I. First-order perturbation theory
Terquem, C., Bertout, C. **274**, 291
- A survey of the dynamics of main-belt asteroids. I
Dvorak, R., Müller, P., Kallrath, J. **274**, 627
- Large orbital eccentricities and close encounters at the 2:1 resonance of a dynamical system modelling asteroidal motion
Varvoglis, H. **275**, 301
- On the possibility of a major impact on Uranus in the past century
Tyson, N.D., Richmond, M.W., Woodhams, M., Ciotti, L. **275**, 630
- Analytical relativistic transformations between reference systems
Brumberg, V.A., Bretagnon, P., Francou, G. **275**, 651
- The importance of distant stellar encounters in the dynamical evolution of planetary systems
Brunini, A. **276**, 261
- Comparison between theories of nutation for a rigid-Earth model
Souchay, J. **276**, 266
- Nongravitational motions of comets: component of the recoil force normal to orbital plane
Sekanina, Z. **277**, 265
- The location of secular resonances close to the 2/1 commensurability
Morbidelli, A., Scholl, H., Froeschlé, C. **278**, 644
- Long-periodic albedo perturbations on LAGEOS
Vokrouhlický, D., Farinella, P., Lucchesi, D. **280**, 282
- Solar radiation pressure perturbations for Earth satellites. I. A complete theory including penumbra transitions
Vokrouhlický, D., Farinella, P., Mignard, F. **280**, 295
- Stability regions around L_4 in the elliptic restricted problem
Lohinger, E., Dvorak, R. **280**, 683

Chaotic phenomena

- Chaotic behaviour in binary galaxies
Stewart, P. **269**, 135
- Helicity fluctuations in mean field theory: an explanation for the variability of the solar cycle?
Hoyng, P. **272**, 321
- Complex instability
Zachilas, L.G. **272**, 750 (**97**, 549)
- Dust coagulation in dense molecular clouds: the formation of fluffy aggregates
Ossenkopf, V. **280**, 617

Comets: general

The β Pictoris circumstellar disk. XV. Highly ionized species near β Pictoris

Deleuil, M., Gry, C., Lagrange-Henri, A.-M., Vidal-Madjar, A., Beust, H., Ferlet, R., Moos, H.W., Livengood, T.A., Ziskin, D., Feldman, P.D., McGrath, M.A. **267**, 187

CN column density distribution in comet P/Halley

Schulz, R. **268**, 319

A search for parent molecules at millimetre wavelengths in comets Austin 1990 V and Levy 1990 XX: upper limits for undetected species

Crovisier, J., Bockelée-Morvan, D., Colom, P., Despois, D., Paubert, G. **269**, 527

Study of the A-X (0,0) band profile of CS in comets

Krishna Swamy, K.S., Tarafdar, S.P. **271**, 326

Dynamics of comet P/Maury

Benest, D., Gonczi, R., Maury, A. **271**, 621

Orbital anomalies of the periodic comets Brorsen, Finlay, and Schwassmann-Wachmann 2

Sekanina, Z. **271**, 630

The dust environment of comet Austin 1990 V

Fulle, M., Bosio, S., Cremonese, G., Cristaldi, S., Liller, W., Pans-ecchi, L. **272**, 634

Dynamical friction induces perturbations on Oort cloud comets

Brunini, A. **273**, 684

The interaction between the solar wind and the comet P/Halley atmosphere: observations versus theoretical predictions

Baranov, V.B., Lebedev, M.G. **273**, 695

Comets and meteorites: relationship (again?)

Padevřt, V., Jakeř, P. **274**, 944

On the missing interstellar comets

Sen, A.K., Rana, N.C. **275**, 298

N-band observations of comet Austin 1989c1: first images with the C10 μ camera

Lagage, P.O., Merlin, P., Remy, S., Sibille, F. **275**, 345

The dust environment of comet P/Grigg-Skjellerup as evidenced from ground-based observations

Fulle, M., Mennella, V., Rotundi, A., Colangeli, L., Bussoletti, E., Pasian, F. **276**, 582

Nongravitational motions of comets: component of the recoil force normal to orbital plane

Sekanina, Z. **277**, 265

Radial distribution of the OH radical in Halley's inner coma

Rousselot, P., Clairemidi, J., Moreels, G. **277**, 653

The extended formaldehyde source in comet P/Halley

Meier, R., Eberhardt, P., Krankowsky, D., Hodges, R.R. **277**, 677

The ion population between 1300 km and 230 000 km in the coma of comet P/Halley

Altwegg, K., Balsiger, H., Geiss, J., Goldstein, R., Ip, W.-H., Meier, A., Neugebauer, M., Rosenbauer, H., Shelley, E. **279**, 260

Cometary dust trails and meteor storms

Kresák, Ľ. **279**, 646

Comets: individual: . . .**Austin 1989c1**

N-band observations of comet Austin 1989c1: first images with the C10 μ camera

Lagage, P.O., Merlin, P., Remy, S., Sibille, F. **275**, 345

Austin 1990 V

A search for parent molecules at millimetre wavelengths in comets Austin 1990 V and Levy 1990 XX: upper limits for undetected species

Crovisier, J., Bockelée-Morvan, D., Colom, P., Despois, D., Paubert, G. **269**, 527

The dust environment of comet Austin 1990 V

Fulle, M., Bosio, S., Cremonese, G., Cristaldi, S., Liller, W., Pans-ecchi, L. **272**, 634

Bradfield (1979X)

Study of the A-X (0,0) band profile of CS in comets

Krishna Swamy, K.S., Tarafdar, S.P. **271**, 326

Levy 1990 XX

A search for parent molecules at millimetre wavelengths in comets Austin 1990 V and Levy 1990 XX: upper limits for undetected species

Crovisier, J., Bockelée-Morvan, D., Colom, P., Despois, D., Paubert, G. **269**, 527

P/Brorsen

Orbital anomalies of the periodic comets Brorsen, Finlay, and Schwassmann-Wachmann 2

Sekanina, Z. **271**, 630

P/Clark

Nongravitational motions of comets: component of the recoil force normal to orbital plane

Sekanina, Z. **277**, 265

P/Finlay

Orbital anomalies of the periodic comets Brorsen, Finlay, and Schwassmann-Wachmann 2

Sekanina, Z. **271**, 630

P/Giacobini-Zinner

Study of the A-X (0,0) band profile of CS in comets

Krishna Swamy, K.S., Tarafdar, S.P. **271**, 326

P/Grigg-Skjellerup

First results from the Giotto magnetometer experiment during the P/Grigg-Skjellerup encounter

Neubauer, F.M., Marschall, H., Pohl, M., Glassmeier, K.-H., Musmann, G., Mariani, F., Acuna, M.H., Burlaga, L.F., Ness, N.F., Wallis, M.K., Schmidt, H.U., Ungstrup, E. **268**, L5

CN, C₂, and dust observed in comet P/Grigg-Skjellerup from the ground eight hours after the Giotto encounter

Jockers, K., Kiselev, N.N., Boehnhardt, H., Thomas, N. **268**, L9

The Giotto encounter with comet P/Grigg-Skjellerup: first results from the Giotto Radio-Science Experiment

Pätzold, M., Edenhofer, P., Bird, M.K., Volland, H. **268**, L13

Observations of the solar wind and cometary ions during the encounter between Giotto and comet P/Grigg-Skjellerup

Johnstone, A.D., Coates, A.J., Huddleston, D.E., Jockers, K., Wilken, B., Borg, H., Gurgiolo, C., Winningham, J.D., Amata, E. **273**, L1

The dust environment of comet P/Grigg-Skjellerup as evidenced from ground-based observations

Fulle, M., Mennella, V., Rotundi, A., Colangeli, L., Bussoletti, E., Pasian, F. **276**, 582

P/Halley

CN column density distribution in comet P/Halley

Schulz, R. **268**, 319

Study of the A-X (0,0) band profile of CS in comets

Krishna Swamy, K.S., Tarafdar, S.P. **271**, 326

The interaction between the solar wind and the comet P/Halley atmosphere: observations versus theoretical predictions

Baranov, V.B., Lebedev, M.G. **273**, 695

Radial distribution of the OH radical in Halley's inner coma

Rousselot, P., Clairemidi, J., Moreels, G. **277**, 653

The extended formaldehyde source in comet P/Halley

Meier, R., Eberhardt, P., Krankowsky, D., Hodges, R.R. **277**, 677

The ion population between 1300 km and 230 000 km in the coma of comet P/Halley

Altwegg, K., Balsiger, H., Geiss, J., Goldstein, R., Ip, W.-H., Meier, A., Neugebauer, M., Rosenbauer, H., Shelley, E. **279**, 260

P/Maury

Dynamics of comet P/Maury

Benest, D., Gonczi, R., Maury, A. **271**, 621

P/Schwassmann-Wachmann 2

Orbital anomalies of the periodic comets Brorsen, Finlay, and Schwassmann-Wachmann 2

Sekanina, Z. **271**, 630

Convection

Rotational effects on convection simulated at different latitudes

Pulkkinen, P., Tuominen, I., Brandenburg, A., Nordlund, Å., Stein, R.F. **267**, 265

The effect of convection on two temperature soft photon Comptonized accretion disks

Meirelles Filho, C. **267**, 651

Horizontal branch evolution

Caloi, V., Mazzitelli, I. **271**, 139

Balmer lines in cool dwarf stars. I. Basic influence of atmospheric models

Fuhrmann, K., Axer, M., Gehren, T. **271**, 451

Damping of solar p-mode oscillations. I. Radial modes with eddy viscosity

Stix, M., Rüdiger, G., Knölker, M., Grabowski, U. **272**, 340

Evolutionary sequences of stellar models with semiconvection and convective overshoot. I. $Z=0.008$

Alongi, M., Bertelli, G., Bressan, A., Chiosi, C., Fagotto, F., Greggio, L., Nasi, E. **272**, 754 (**97**, 851)

Distribution of magnetic energy in $\alpha\Omega$ -dynamoes. III. A localized solar dynamo

van Geffen, J.H.G.M. **274**, 534

The probability-density function of solar p modes and the location of the excitation mechanism

Gabriel, M. **274**, 931

A-effect and differential rotation in stellar convection zones

Kichatinov, L.L., Rüdiger, G. **276**, 96

Numerical studies of convective penetration in plane parallel layers and the integral constraint

Roxburgh, I.W., Simmons, J. **277**, 93

A study of three-dimensional turbulent compressible convection in a deep atmosphere at various Prandtl numbers

Singh, H.P., Chan, K.L. **279**, 107

Stellar pulsations with stochastic driving

Buchler, J.R., Goupil, M.-J., Kovács, G. **280**, 157

(Cosmology:) cosmic microwave background

The motion of the Local Group with respect to the microwave background frame: local anomaly and effect of clusters at distances $>40 h^{-1}$ Mpc

Goicoechea, L.J. **269**, L9

ARGO: a balloon-borne telescope for measurements of the millimeter diffuse sky emission

de Bernardis, P., Aquilini, E., Boscaleri, A., De Petris, M., Geravasi, M., Martinis, L., Masi, S., Natale, V., Palumbo, P., Scaramuzzi, F., Valenziano, L. **271**, 683

Microwave background temperature fluctuations resulting from non-flat perturbation spectra

Gottlöber, S., Mückel, J.P. **272**, 1

The Local Group motion towards Virgo and the microwave background

Jerjen, H., Tammann, G.A. **276**, 1

The cosmic anisotropy telescope

Robson, M., Yassin, G., Woan, G., Wilson, D.M.A., Scott, P.F., Lasenby, A.N., Kenderdine, S., Duffett-Smith, P.J. **277**, 314

(Cosmology:) dark matter

Can the neutrino picture be revived? QSO constraints revisited

Blanchard, A., Buchert, T., Klaffl, R. **267**, 1

The distribution of dark matter in the A 2256 cluster

Henry, J.P., Briel, U.G., Nulsen, P.E.J. **271**, 413

Large-scale QSO-galaxy correlations revisited

Bartelmann, M., Schneider, P. **271**, 421

Criticism of Gerbal et al.'s analysis of X-ray clusters in the light of modified dynamics

Milgrom, M. **273**, L5

Answer to Milgrom's criticisms

Gerbal, D., Durret, F., Lachièze-Rey, M., Lima-Neto, G. **273**, L9

The distribution of dark matter in distant cluster-lenses: modelling A 370

Kneib, J.-P., Mellier, Y., Fort, B., Mathez, G. **273**, 367

Warped disks, shells and other features of galaxies in the IC 4296 group, as revealed by Schmidt plate co-addition

Kemp, S.N., Meaburn, J. **274**, 19

Deep kinematics and dynamics of edge-on S0 galaxies. I. NGC 3115

Capaccioli, M., Cappellaro, E., Held, E.V., Vietri, M. **274**, 69

Kinematics of a sample of globular clusters in the halo and the mass of M 31

Federici, L., Bòdoli, F., Ciotti, L., Fusi Pecci, F., Marano, B., Lipovetsky, V.A., Neizvestny, S.I., Spassova, N. **274**, 87

Gravitational imaging by elliptical galaxies: the effects of dark halos

Breimer, T.G., Sanders, R.H. **274**, 96

Consequences of cluster evolution for the statistics of giant luminous arcs

Bartelmann, M. **276**, 9

Detection of brown dwarfs by the micro-lensing of unresolved stars

Baillon, P., Bouquet, A., Giraud-Héraud, Y., Kaplan, J. **277**, 1

A possible fast growth of adiabatic cosmological perturbations

Mészáros, A. **278**, 1

Towards a bolometric dark matter detection experiment: underground radioactive background measurements in the 3 keV – 5 MeV energy range with a massive bolometer at 55 mK

Coron, N., Zhou, J.W., de Bellefon, A., Dambier, G., Giraud-Héraud, Y., Goldbach, C., Gonzalez-Mestres, L., Goret, P., Leblanc, J., de Marcillac, P., Nollez, G. **278**, L31

Upper bounds on the cosmological density of compact objects with sub-solar masses from the variability of QSOs

Schneider, P. **279**, 1

Dark matter in spiral galaxies and the Arimoto-Jablonka photometric model

Persic, M., Salucci, P., Ashman, K.M. **279**, 343

Lensing of invisible stars by brown dwarfs

Bouquet, A. **280**, 1

Detection of weak lensing by a massive dark halo in Q 2345+007

Bonnet, H., Fort, B., Kneib, J.-P., Mellier, Y., Soucail, G. **280**, L7

(Cosmology:) diffuse radiation

The contribution of quasars to the cosmic X-ray background

Zhou, Y.Y., Hu, Y.D., Yu, K.N., Young, E.C.M. **267**, 11

Constraints for the shape of the UV background at $z=2$

Vogel, S., Reimers, D. **274**, L5

A deep X-ray survey in the Lockman Hole and the soft X-ray log N -log S

Hasinger, G., Burg, R., Giacconi, R., Hartner, G., Schmidt, M., Trümper, J., Zamorani, G. **275**, 1

(Cosmology:) distance scale

Models for the early-time spectral evolution of the 'standard' type Ia supernova 1990 N

Mazzali, P.A., Lucy, L.B., Danziger, I.J., Gouffes, C., Cappellaro, E., Turatto, M. **269**, 423

(Cosmology:) early Universe

He I absorption lines in high-redshift Lyman limit systems of the QSO HS 1700+6416

Reimers, D., Vogel, S. **276**, L13

(Cosmology:) gravitational lensing

Large-scale correlations between QSOs and galaxies. An effect caused by gravitational lensing?

Bartelmann, M., Schneider, P. **268**, 1

An imaging study of the environments of radio-selected BL Lac objects

Fried, J.W., Stickel, M., Kühr, H. **268**, 53

Moving microlensing caustics

Schramm, T., Kayser, R., Chang, K., Nieser, L., Refsdal, S. **268**, 350

Classification of the multiple deflection two point-mass gravitational lens models and application of catastrophe theory in lensing

Erdl, H., Schneider, P. **268**, 453

Microlensing predictions for the Einstein Cross 2237+0305

Witt, H.J., Kayser, R., Refsdal, S. **268**, 501

Lensing effects of gravitational radiation near celestial sources

Labeyrie, A. **268**, 823

Discovery of a luminous giant arc in a high redshift cluster of galaxies

Melnick, J., Altieri, B., Gopal-Krishna, Giraud, E. **271**, L5

Large-scale QSO-galaxy correlations revisited

Bartelmann, M., Schneider, P. **271**, 421

New caustic singularities in multiple lens plane gravitational lensing

Levine, H.J., Petters, A.O. **272**, L17

Erratum: (Letter) Q 1208+1011: the most distant multiply imaged quasar, or a binary?

Magain, P., Surdej, J., Vanderriest, C., Pirenne, B., Hutsemékers, D. **272**, 383

On the rotation of polarization by a gravitational lens

Faraoni, V. **272**, 385

Gamma-ray bursts from relativistic jets in cocooned active galactic nuclei and gravitational lensing tests of the cosmological origin

McBreen, B., Plunkett, S., Metcalfe, L. **272**, 729 (97, 81)

The distribution of dark matter in distant cluster-lenses: modelling A 370

Kneib, J.-P., Mellier, Y., Fort, B., Mathez, G. **273**, 367

Gravitational imaging by elliptical galaxies: the effects of dark halos

Breimer, T.G., Sanders, R.H. **274**, 96

Consequences of cluster evolution for the statistics of giant luminous arcs

Bartelmann, M. **276**, 9

Detection of brown dwarfs by the micro-lensing of unresolved stars

Baillon, P., Bouquet, A., Giraud-Héraud, Y., Kaplan, J. **277**, 1

Gravitational microlensing variability caused by small masses

Refsdal, S., Stabell, R. **278**, L5

New caustic singularities in multiple lens plane gravitational lensing are not stable

Kayser, R., Schramm, T. **278**, L13

The new double QSO HE 1104-1805: Gravitational lens with microlensing or binary quasar?

Wisotzki, L., Köhler, T., Kayser, R., Reimers, D. **278**, L15

Optical imaging of the gravitational lens system B 1422+231

Remy, M., Surdej, J., Smette, A., Claeskens, J.-F. **278**, L19

Parallactic variation of gravitational lensing and measurement of stellar mass

Hosokawa, M., Ohnishi, K., Fukushima, T., Takeuti, M. **278**, L27

Recent activity in the optical and radio lightcurves of the blazar 3C 345: indications for a "lighthouse effect" due to jet rotation

Schramm, K.-J., Borgeest, U., Camenzind, M., Wagner, S.J., Bade, N., Dreissigacker, O., Heid, J., Hoff, W., Kayser, R., Kühl, D., von Linde, J., Linnert, M.D., Pelt, J., Schramm, T., Sillanpää, A., Takalo, L.O., Valtaoja, E., Vigotti, M. **278**, 391

Upper bounds on the cosmological density of compact objects with sub-solar masses from the variability of QSOs

Schneider, P. **279**, 1

Lensing of invisible stars by brown dwarfs

Bouquet, A. **280**, 1

Detection of weak lensing by a massive dark halo in Q 2345+007

Bonnet, H., Fort, B., Kneib, J.-P., Mellier, Y., Soucail, G. **280**, L7

Straight arcs in galaxy clusters

Narasimha, D., Chitre, S.M. **280**, 57

Near-infrared and optical imaging of Q 2345+007: the largest gravitationally lensed QSO system?

Gopal-Krishna, Yates, M., Wiita, P.J., Smette, A., Pati, A., Altieri, B. **280**, 360

Selective gravitational microlensing and line profile variations in the BAL quasar H 1413+117

Hutsemékers, D. **280**, 435

(Cosmology:) large-scale structure of Universe

A new test for cosmic structure based on the anisotropy field of 60- μ m extragalactic IRAS sources

Fabbri, R., Natale, V. **267**, L15

Lagrangian perturbation theory: a key-model for large-scale structure

Buchert, T. **267**, L51

A new approach to the Malmquist bias

Luri, X., Mennessier, M.O., Torra, J., Figueras, F. **267**, 305

Large-scale correlations between QSOs and galaxies. An effect caused by gravitational lensing?

Bartelmann, M., Schneider, P. **268**, 1

The nonlinear stage of evolution of spherically symmetric disturbances in an Einstein-de Sitter universe: explosive and implosive modes

Kovalenko, I.G., Sokolov, P.A. **270**, 1

Microwave background temperature fluctuations resulting from non-flat perturbation spectra

Gottlöber, S., Mückel, J.P. **272**, 1

Criticism of Gerbal et al.'s analysis of X-ray clusters in the light of modified dynamics

Milgrom, M. 273, L5

Answer to Milgrom's criticisms

Gerbal, D., Durret, F., Lachièze-Rey, M., Lima-Neto, G. 273, L9

General study of group membership. I. The sample

Garcia, A.M., Paturel, G., Bottinelli, L., Gouguenheim, L. 273, 350 (98, 7)

Wavelet analysis of cosmic velocity fields

Rauzy, S., Lachièze-Rey, M., Henriksen, R.N. 273, 357

High-resolution simulation of deep pencil beam surveys – analysis of quasi-periodicity

Weiß, A.G., Buchert, T. 274, 1

Large-scale inhomogeneities and galaxy number counts

Phillipps, S. 275, 357

The galaxy clustering correlation length

Martínez, V.J., Portilla, M., Jones, B.J.T., Paredes, S. 280, 5

Peculiar motions in superclusters: Perseus – Pisces

Baffa, C., Chincarini, G., Henry, R.B.C., Manousyanaki, J. 280, 20

Timescales of isotropic and anisotropic cluster collapse

Bartelmann, M., Ehlers, J., Schneider, P. 280, 351

Cosmology: miscellaneous

Large-scale correlations between QSOs and galaxies. An effect caused by gravitational lensing?

Bartelmann, M., Schneider, P. 268, 1

Classification of the multiple deflection two point-mass gravitational lens models and application of catastrophe theory in lensing

Erdl, H., Schneider, P. 268, 453

Simulations of the evolution of galaxy clusters. I. Dynamics of the galaxies

Schindler, S., Böhringer, H. 269, 83

Wavelet analysis of cosmic velocity fields

Rauzy, S., Lachièze-Rey, M., Henriksen, R.N. 273, 357

On the Li production by galactic C stars

Abia, C., Isern, J., Canal, R. 275, 96

Crossing the Lyman valley: how many UV-bright high redshift quasars are there?

Picard, A., Jakobsen, P. 276, 331

A semi-analytic method for calculating D_A evolution

Zuo, L. 278, 343

Cosmology: observations

A new test for cosmic structure based on the anisotropy field of 60- μ m extragalactic IRAS sources

Fabbri, R., Natale, V. 267, L15

An imaging study of the environments of radio-selected BL Lac objects

Fried, J.W., Stickel, M., Kühr, H. 268, 53

Determination of absorption-free magnitudes for faint galaxies

Cunow, B. 268, 491

Search for LiH lines at high redshift

de Bernardis, P., Dubrovich, V., Encrenaz, P.J., Maoli, R., Masi, S., Mastrantonio, G., Melchiorri, B., Melchiorri, F., Signore, M., Tanzilli, P.E. 269, 1

The motion of the Local Group with respect to the microwave background frame: local anomaly and effect of clusters at distances $>40 h^{-1}$ Mpc

Goicoechea, L.J. 269, L9

The Li^6/Li ratio and the stellar yield of ^7Li

Reeves, H. 269, 166

The lithium-poor stars: additional observations

Spite, M., Molaro, P., François, P., Spite, F. 271, L1

Large-scale QSO–galaxy correlations revisited

Bartelmann, M., Schneider, P. 271, 421

The kinematics of the Virgo cluster revisited

Binggeli, B., Popescu, C.C., Tammann, G.A. 273, 354 (98, 275)

Constraints for the shape of the UV background at $z=2$

Vogel, S., Reimers, D. 274, L5

A deep X-ray survey in the Lockman Hole and the soft X-ray log N –log S

Hasinger, G., Burg, R., Giacconi, R., Hartner, G., Schmidt, M., Trümper, J., Zamorani, G. 275, 1

Large-scale inhomogeneities and galaxy number counts

Phillipps, S. 275, 357

He I absorption lines in high-redshift Lyman limit systems of the QSO HS 1700+6416

Reimers, D., Vogel, S. 276, L13

Does the Lyman Limit System (LLS) evolve strongly?

Fan, X.H., Chen, J.-S. 277, L5

X-ray emission from a complete sample of Abell clusters of galaxies

Briel, U.G., Henry, J.P. 278, 379

Lithium abundance in a few extremely metal-poor stars and strontium-poor stars

Spite, F., Spite, M. 279, L9

A deep imaging survey of fields around quasars with $z < 1$ Mg II absorption systems

Le Brun, V., Bergeron, J., Boissé, P., Christian, C. 279, 33

Cosmology: theory

Can the neutrino picture be revived? QSO constraints revisited

Blanchard, A., Buchert, T., Klaffl, R. 267, 1

The contribution of quasars to the cosmic X-ray background

Zhou, Y.Y., Hu, Y.D., Yu, K.N., Young, E.C.M. 267, 11

The nature of the angular momentum of galaxies: the hydrodynamical theory

Chernin, A.D. 267, 315

Formation of primordial molecules and thermal balance in the early Universe

Puy, D., Alecian, G., Le Bourlot, J., Léorat, J., Pineau des Forêts, G. 267, 337

The nonlinear stage of evolution of spherically symmetric disturbances in an Einstein-de Sitter universe: explosive and implosive modes

Kovalenko, I.G., Sokolov, P.A. 270, 1

Microwave background temperature fluctuations resulting from non-flat perturbation spectra

Gottlöber, S., Mücke, J.P. 272, 1

High-resolution simulation of deep pencil beam surveys – analysis of quasi-periodicity

Weiß, A.G., Buchert, T. 274, 1

A possible fast growth of adiabatic cosmological perturbations

Mészáros, A. 278, 1

Time evolution of a density discontinuity in the one-dimensional gravitational gas

Muriel, A., Feix, M., Jirkovsky, L. 279, 341

Timescales of isotropic and anisotropic cluster collapse

Bartelmann, M., Ehlers, J., Schneider, P. 280, 351

Dense matter

Crystallization of binary ionic mixtures in dense stellar plasmas

Segretain, L., Chabrier, G. 271, L13

Upper bounds on the neutrino burst from collapse of a neutron star into a black hole

Gourgoulhon, E., Haensel, P. 271, 187

A possible explanation of the origin of the second kind of magnetic fields of neutron stars

Luo, L.-F., Yang, G.-C., Lu, T. **275**, 192

Implications of the crustal moment of inertia for neutron-star equations of state

Datta, B., Alpar, M.A. **275**, 210

Diffusion

Galactic diffusion and wind models of cosmic-ray transport. I. Insight from CR composition studies and γ -ray observations

Bloemen, J.B.G.M., Dogiel, V.A., Dorman, V.L., Ptuskin, V.S. **267**, 372

Diffusion and drift of very high energy cosmic rays in galactic magnetic fields

Ptuskin, V.S., Rogovaya, S.I., Zirakashvili, V.N., Chuvilgin, L.G., Khristiansen, G.B., Klepach, E.G., Kulikov, G.V. **268**, 726

HS 0209+0832: a DAB white dwarf with a temperature fitting into the DB gap

Jordan, S., Heber, U., Engels, D., Koester, D. **273**, L27

Cosmic rays. III. The cosmic ray spectrum between 1 GeV and 10^8 GeV and the radio emission from supernova remnants

Biermann, P.L., Strom, R.G. **275**, 659

Anomalous diffusion of cosmic rays across the magnetic field

Chuvilgin, L.G., Ptuskin, V.S. **279**, 278

Transport of angular momentum and diffusion by the action of internal waves

Schatzman, E. **279**, 431

Earth

Orbital, precessional, and insolation quantities for the Earth from -20 Myr to +10 Myr

Laskar, J., Joutel, F., Boudin, F. **270**, 522

Systematic deformations of the apparent almucantar as derived from Danjon astrolabes in Paris and Santiago de Chile

Pešek, I., Vondrák, J., Chollet, F., Noël, F. **274**, 621

Comparison between theories of nutation for a rigid-Earth model

Souchay, J. **276**, 266

Quasi-biennial oscillation in green corona activity and Earth's rotation

Djurovic, D., Pâquet, P. **277**, 669

Eclipses

Periodic orbits close to that of the Moon

Valsecchi, G.B., Perozzi, E., Roy, A.E., Steves, B.A. **271**, 308

The solar F-corona at 2.12 μ m: calculations of near-solar dust in comparison to 1991 eclipse observations

Mann, I., MacQueen, R.M. **275**, 293

Improving the eclipse mapping method

Baptista, R., Steiner, J.E. **277**, 331

Elementary particles

The proton blazar

Mannheim, K. **269**, 67

Solar neutrinos and nuclear reactions in the solar interior

Castellani, V., Degl'Innocenti, S., Fiorentini, G. **271**, 601

Ephemerides

A spectroscopic ephemeris of the secondary star in the AM Herculis binary V 834 Centauri

Schwope, A.D., Thomas, H.-C., Beuermann, K., Reinsch, K. **267**, 103

Orbital elements of the eight major satellites of Saturn determined from a fit of their theories of motion to observations from 1886 to 1985

Dourneau, G. **267**, 292

Ephemerides of the 48 Hipparcos minor planets for the year 1993

Bec-Borsenberger, A. **273**, 351 (**98**, 77)

Accurate procedure for deriving UT1 at a submilliarcsecond accuracy from Greenwich Sidereal Time or from the stellar angle

Capitaine, N., Gontier, A.-M. **275**, 645

Equation of state

Implications of the crustal moment of inertia for neutron-star equations of state

Datta, B., Alpar, M.A. **275**, 210

Errata, addenda

Erratum: (RN) The initial mass function of the Coma Berenices open cluster (Mel 111)

Bounatiro, L., Arimoto, N. **268**, 829

Erratum: Spectral monitoring of powerful radio sources

Hooimeyer, J.R.A., Miley, G.K., de Waard, G.J., Schilizzi, R.T. **268**, 831

Erratum: Identification of IRAS point sources in Scorpio-Centaurus-Lupus

Carballo, R., Wesselius, P.R., Whittet, D.C.B. **268**, 832

Erratum: Stellar yields as a function of initial metallicity and mass limit for black hole formation

Maeder, A. **268**, 833

Erratum: (Letter) Q 1208+1011: the most distant multiply imaged quasar, or a binary?

Magain, P., Surdej, J., Vanderriest, C., Pirenne, B., Hutsemékers, D. **272**, 383

Erratum: The calibration of Strömgren photometry for A, F and early G supergiants. III. The A and early F supergiants

Gray, R.O. **273**, 349

Erratum: The RATAN-600 7.6 cm catalogue of radio sources from "Experiment Cold-80"

Parijskij, Y.N., Bursov, N.N., Lipovka, N.M., Soboleva, N.S., Temirova, A.V. **273**, 356 (**98**, 391)

Erratum: The RATAN-600 7.6 cm catalogue of radio sources within the interval $22^{\text{h}}-4^{\text{h}}$ at declination of SS 433

Parijskij, Y.N., Bursov, N.N., Lipovka, N.M., Soboleva, N.S., Temirova, A.V., Chepurinov, A.V. **273**, 356 (**98**, 391)

Erratum: Radio and X-ray emission from main-sequence K stars

Güdel, M. **273**, 719

Erratum: The nature of the F str A4077 stars. IV. Search for white dwarfs around barium dwarfs

North, P., Lanz, T. **273**, 720

Erratum: The nature of the X-ray spectrum of VW Hydri

van Teeseling, A., Verbunt, F., Heise, J. **273**, 721

Erratum: Radio polarization surveys of Centaurus A (NGC 5128). I. The complete radio source at λ 6.3 cm

Junkes, N., Haynes, R.F., Harnett, J.L., Jauncey, D.L. **274**, 1009

Erratum: NGC 6603: a young rich open cluster towards the bulge

Bica, E., Ortolani, S., Barbuy, B. **277**, 360

Erratum: Member stars of the open cluster Mel 111 in Coma Berenices (Text in French)

Bounatiro, L. **277**, 362 (**102**, 673)

Erratum: (Letter) Large-scale extinction effects in the disk of S0 galaxies

Michard, R., Simien, F. **279**, 335

Erratum: The correlations between planetary nebula morphology and central star evolution

Stanghellini, L., Corradi, R.L.M., Schwarz, H.E. **279**, 674

Galaxies: abundances

Dense gas in nearby galaxies. VI. A large $^{12}\text{C}/^{13}\text{C}$ ratio in a nuclear starburst environment

Henkel, C., Mauersberger, R., Wiklind, T., Hüttemeister, S., Lemme, C., Millar, T.J. **268**, L17

Erratum: Stellar yields as a function of initial metallicity and mass limit for black hole formation

Maeder, A. **268**, 833

Radial distribution of metallicity in the LMC cluster systems

Kontizas, M., Kontizas, E., Michalitsianos, A.G. **269**, 107

The stellar content of elliptical galaxies: optical and infrared colour profiles of M 32 and NGC 205

Peletier, R.F. **271**, 51

Type I planetary nebulae in the Large Magellanic Cloud: oxygen, sulphur, and argon abundances as tracers of chemical enrichment

de Freitas Pacheco, J.A., Barbuy, B., Costa, R.D.D., Idiart, T.E.P. **271**, 429

Analysis of NGC 1948 F6:4, a star in a young association of the LMC

Spite, F., Barbuy, B., Spite, M. **272**, 116

Constraints for the shape of the UV background at $z=2$

Vogel, S., Reimers, D. **274**, L5

C and O nucleosynthesis in starbursts: the connection between distant mergers, the Galaxy, and the solar system

Henkel, C., Mauersberger, R. **274**, 730

The chemical compositions of four B-type stars in the Small Magellanic Cloud

Rolleston, W.R.J., Dufton, P.L., Fitzsimmons, A., Howarth, I.D., Irwin, M.J. **277**, 10

On the evolution of helium, nitrogen and oxygen abundances in dwarf irregular galaxies

Pilyugin, L.S. **277**, 42

NGC 6951: circumnuclear star formation around a Seyfert nucleus

Boer, B., Schulz, H. **277**, 397

Abundances of non-type I planetary nebulae in the LMC

de Freitas Pacheco, J.A., Costa, R.D.D., Maciel, W.J. **279**, 567

Galaxies: active

Linear size evolution of extended quasars

Chyży, K.T., Zięba, S. **267**, L27

Multiple-peaked line profiles from relativistic disks at high inclination angles

Matt, G., Perola, G.C., Stella, L. **267**, 643

Radio polarization surveys of Centaurus A (NGC 5128). I. The complete radio source at λ 6.3 cm

Junkes, N., Haynes, R.F., Harnett, J.J., Jauncey, D.L. **269**, 29

A study of southern extreme IRAS galaxies. IV. Summary and interpretation of the observations

van den Broek, A.C. **269**, 96

The radio and optical structure of 3C 66B

Jackson, N., Sparks, W.B., Miley, G.K., Macchetto, F. **269**, 128

The distribution of CO in NGC 4945

Dahlem, M., Golla, G., Whiteoak, J.B., Wielebinski, R., Hüttemeister, S., Henkel, C. **270**, 29

Structure and spectra of accretion disks in the innermost parts of active galaxies

Störzer, H. **271**, 25

Optical microvariability and radio quiet QSOs

Gopal-Krishna, Wiita, P.J., Altieri, B. **271**, 89

A sample of gigahertz-peaked-spectrum radio sources: List 3

Gopal-Krishna, Spoelstra, T.A.T. **271**, 101

Intraday variability in the BL Lac object 0954+658

Wagner, S.J., Witzel, A., Krichbaum, T.P., Wegner, R., Quirrenbach, A., Anton, K., Erkens, U., Khanna, R., Zensus, A. **271**, 344

The optical identification of the luminous radio galaxy 0409-752

Alvarez, H., Aparici, J., May, J., Navarrete, M. **271**, 435

The polarized spectrum of Cygnus A

Jackson, N., Tadhunter, C.N. **272**, 105

Overview of two-year observations with SIGMA on board GRANAT

Mandrou, P., Jourdain, E., Bassani, L., Vedrenne, G., Paul, J., Leray, J.-P., Lebrun, F., Ballet, J., Churazov, E., Gilfanov, M., Sunyaev, R., Bogomolov, A., Khavenson, N., Kuleshova, N., Tserenin, I., Sukhanov, K. **272**, 724 (97, 1)

Overview of the first results from EGRET

Fichtel, C.E., Bertsch, D.L., Hartman, R.C., Hunter, S.D., Kanbach, G., Kniffen, D.A., Kwok, P.W., Lin, Y.C., Mattox, J.R., Mayer-Hasselwander, H.A., Michelson, P.F., von Montigny, C., Nolan, P.L., Pinkau, K., Rothermel, H., Schneid, E.J., Sommer, M., Sreekumar, P., Thompson, D.J. **272**, 725 (97, 13)

Gamma-ray bursts from relativistic jets in cocooned active galactic nuclei and gravitational lensing tests of the cosmological origin

McBreen, B., Plunkett, S., Metcalfe, L. **272**, 729 (97, 81)

Supernova-like mechanism for cosmic-ray origin in AGN

Dokuchaev, V.I., Karakula, S., Tkaczyk, W. **272**, 731 (97, 109)

X-ray polarimetry of AGNs with SXP

Massaro, E., Matt, G., Perola, G.C., Costa, E., Piro, L., Soffitta, P. **272**, 747 (97, 399)

Spectroscopy of 1 Jy and S5 radio source identifications. II

Stickel, M., Kühr, H., Fried, J.W. **272**, 749 (97, 483)

Ram-pressure accretion of intergalactic gas clouds by galaxies

Sofue, Y., Wakamatsu, K. **273**, 79

Photometric properties of some AGNs

Kalinkov, M., Kuneva, I., Tsvetanov, Z., Strigachev, A. **273**, 352 (98, 165)

X-ray spectral variability of the Seyfert galaxy NGC 4593

Ghosh, K.K., Soundararajaperumal, S. **273**, 397

Variability and emission mechanisms in Seyfert 1 galaxies: a near-infrared outburst in NGC 4051

Salvati, M., Hunt, L.K., Calamai, G., Del Zanna, G., Giannuzzo, E., Kidger, M., Mannucci, F., Stanga, R.M., Wamsteker, W. **274**, 174

Erratum: Radio polarization surveys of Centaurus A (NGC 5128). I. The complete radio source at λ 6.3 cm

Junkes, N., Haynes, R.F., Harnett, J.J., Jauncey, D.L. **274**, 1009

First 43 GHz VLBI-observations with the 30-m radio telescope at Pico Veleta

Krichbaum, T.P., Witzel, A., Graham, D.A., Standke, K.J., Schwartz, R., Lochner, O., Schalinski, C.J., Greve, A., Steppe, H., Brunswig, W., Butin, G., Hein, H., Navarro, S., Peñalver, J., Grewing, M., Booth, R.S., Colomer, F., Rönnäng, B.O. **275**, 375

Spectroscopic observations of radio source identifications from the 1 Jy, S4 and S5 surveys. III

Stickel, M., Kühr, H. **276**, 330 (100, 395)

G 76.9+1.0, a supernova remnant with unusual properties

Landecker, T.L., Higgs, L.A., Wendker, H.J. **276**, 522

High resolution CO observations of NGC 1275

Reuter, H.P., Pohl, M., Lesch, H., Sievers, A.W. **277**, 21

A detailed analysis of the extended ionized nebulosity surrounding NGC 4388

Petitjean, P., Durret, F. **277**, 365

CO(2 \rightarrow 1) and ^{13}CO (1 \rightarrow 0) emission from luminous southern infrared galaxies

Garay, G., Mardones, D., Mirabel, I.F. **277**, 405

The Galactic Center radio jet

Falcke, H., Mannheim, K., Biermann, P.L. **278**, L1

The relation between BL Lacertae objects and OVV quasars, and the unified model of BL Lacertae objects, FR-I and FR-II (G) radio galaxies

Xie, G.Z., Zhang, Y.H., Fan, J.H., Liu, F.K. **278**, 6

The evidence for anisotropy of the ionizing continuum of NGC 4151

Schulz, H., Komossa, S. **278**, 29

Diffusive particle acceleration by an ensemble of shock waves

Schneider, P. **278**, 315

Rapid X-ray variability in the I Zw 1 class object IRAS 13224-3809

Boller, T., Trümper, J., Molendi, S., Fink, H., Schaeidt, S., Caulet, A., Dennefeld, M. **279**, 53

Near-infrared images of IRAS galaxies

Zenner, S., Lenzen, R. **279**, 337 (**101**, 363)

Optical spectroscopy of 1 Jy, S4 and S5 radio sources. IV

Stickel, M., Kühr, H. **279**, 676 (**101**, 521)

A sample of optically faint infrared luminous galaxies

Klaas, U., Elsässer, H. **280**, 76

The sub-arcsecond structure of 4C 39.25

Jackson, N., Browne, I.W.A., Alberdi, A., Marcaide, J.M. **280**, 128

Deep optical identifications of compact radio sources selected from the GB/GB2 sample

Machalski, J., Magdziarz, P. **280**, 346 (**102**, 315)

Optical counterpart of galactic plane variable radio sources

Paredes, J.M., Martí, J., Jordi, C., Trullols, E., Peracaula, M. **280**, 347 (**102**, 381)

Millimeter continuum measurements of extragalactic radio sources (III)

Steppe, H., Paubert, G., Sievers, A., Reuter, H.P., Greve, A., Liechti, S., Le Floch, B., Brunswig, W., Menéndez, C., Sanchez, S. **280**, 350 (**102**, 611)

Near-infrared and optical imaging of Q 2345+007: the largest gravitationally lensed QSO system?

Gopal-Krishna, Yates, M., Wiita, P.J., Smette, A., Pati, A., Altieri, B. **280**, 360

Our galactic center: a laboratory for the feeding of active galactic nuclei

von Linden, S., Biermann, P.L., Duschl, W.J., Lesch, H., Schmutzler, T. **280**, 468

(Galaxies:) BL Lacertae objects: general

An imaging study of the environments of radio-selected BL Lac objects

Fried, J.W., Stickel, M., Kühr, H. **268**, 53

The proton blazar

Mannheim, K. **269**, 67

Intraday variability in the BL Lac object 0954+658

Wagner, S.J., Witzel, A., Krichbaum, T.P., Wegner, R., Quirrenbach, A., Anton, K., Erken, U., Khanna, R., Zensus, A. **271**, 344

Detection of high energy gamma rays from BL Lac PKS 0235+164 by the EGRET telescope on the Compton observatory

Hunter, S.D., Bertsch, D.L., Dingus, B.L., Fichtel, C.E., Hartman, R.C., Kanbach, G., Kniffen, D.A., Kwok, P.W., Lin, Y.C., Mattox, J.R., Mayer-Hasselwander, H.A., Michelson, P.F., von Montigny, C., Nolan, P.L., Schneid, E., Sreekumar, P., Thompson, D.J. **272**, 59

Multi-wavelength studies of active galactic nuclei

Courvoisier, T.J.-L. **272**, 730 (**97**, 93)

The radio state of extragalactic γ -ray sources detected by CGRO

Reich, W., Steppe, H., Schlickeiser, R., Reich, P., Pohl, M., Reuter, H.P., Kanbach, G., Schönfelder, V. **273**, 65

Optical circular polarization in two BL Lacertae objects?

Valtaoja, L., Karttunen, H., Valtaoja, E., Shakhovskoy, N.M., Efimov, Y.S. **273**, 393

The complete sample of 1 Jy BL Lacertae objects. II. Observational data

Stickel, M., Fried, J.W., Kühr, H. **274**, 1011 (**98**, 393)

High-frequency variability of extragalactic radio sources. II. A statistical multi-frequency model of variability

Magdziarz, P., Machalski, J. **275**, 405

Spectroscopic observations of sixteen BL Lacertae candidates

Véron-Cetty, M.-P., Véron, P. **277**, 362 (**100**, 521)

The relation between BL Lacertae objects and OVV quasars, and the unified model of BL Lacertae objects, FR-I and FR-II (G) radio galaxies

Xie, G.Z., Zhang, Y.H., Fan, J.H., Liu, F.K. **278**, 6

The long and short timescale polarization variability of the BL Lacertae object PKS 0109+224

Valtaoja, L., Karttunen, H., Efimov, Y.S., Shakhovskoy, N.M. **278**, 371

Millimeter continuum measurements of extragalactic radio sources (III)

Steppe, H., Paubert, G., Sievers, A., Reuter, H.P., Greve, A., Liechti, S., Le Floch, B., Brunswig, W., Menéndez, C., Sanchez, S. **280**, 350 (**102**, 611)

(Galaxies:) BL Lacertae objects: individual: . . .

OJ 287

Hipparcos link with Carte du Ciel triple images

Dick, W.R., Tucholke, H.-J., Brosche, P., Galas, R., Geffert, M., Guibert, J. **279**, 267

PKS 0109+224

The long and short timescale polarization variability of the BL Lacertae object PKS 0109+224

Valtaoja, L., Karttunen, H., Efimov, Y.S., Shakhovskoy, N.M. **278**, 371

PKS 0235+164

Detection of high energy gamma rays from BL Lac PKS 0235+164 by the EGRET telescope on the Compton observatory

Hunter, S.D., Bertsch, D.L., Dingus, B.L., Fichtel, C.E., Hartman, R.C., Kanbach, G., Kniffen, D.A., Kwok, P.W., Lin, Y.C., Mattox, J.R., Mayer-Hasselwander, H.A., Michelson, P.F., von Montigny, C., Nolan, P.L., Schneid, E., Sreekumar, P., Thompson, D.J. **272**, 59

Q 0422+004

Optical circular polarization in two BL Lacertae objects?

Valtaoja, L., Karttunen, H., Valtaoja, E., Shakhovskoy, N.M., Efimov, Y.S. **273**, 393

Q 0735+178

Optical circular polarization in two BL Lacertae objects?

Valtaoja, L., Karttunen, H., Valtaoja, E., Shakhovskoy, N.M., Efimov, Y.S. **273**, 393

Q 0954+658

Intraday variability in the BL Lac object 0954+658

Wagner, S.J., Witzel, A., Krichbaum, T.P., Wegner, R., Quirrenbach, A., Anton, K., Erken, U., Khanna, R., Zensus, A. **271**, 344

3C 345

Recent activity in the optical and radio lightcurves of the blazar 3C 345: indications for a "lighthouse effect" due to jet rotation
Schramm, K.-J., Borgeest, U., Camenzind, M., Wagner, S.J., Bade, N., Dreissigacker, O., Heidt, J., Hoff, W., Kayser, R., Kühl, D., von Linde, J., Linnert, M.D., Pelt, J., Schramm, T., Sillanpää, A., Takalo, L.O., Valtaoja, E., Vigotti, M. **278**, 391

3C 446

A 100 GHz map of 3C 446

Lerner, M.S., Bââth, L.B., Inoue, M., Padin, S., Rogers, A.E.E., Wright, M.C.H., Zensus, A., Backer, D.C., Booth, R.S., Carlstrom, J.E., Emerson, D.T., Hirabayashi, H., Hodges, M.W., Jewell, P., Kobayashi, H., Kus, A.J., Moran, J.M., Morimoto, M., Plambeck, R.L., Rantakyrö, F.T., Woody, D. **280**, 117

Galaxies: clustering

An imaging study of the environments of radio-selected BL Lac objects

Fried, J.W., Stickel, M., Kühr, H. **268**, 53

The motion of the Local Group with respect to the microwave background frame: local anomaly and effect of clusters at distances $>40 \text{ h}^{-1} \text{ Mpc}$

Goicoechea, L.J. **269**, L9

Simulations of the evolution of galaxy clusters. I. Dynamics of the galaxies

Schindler, S., Böhringer, H. **269**, 83

Formation and evolution of cluster cooling flows

Friaça, A.C.S. **269**, 145

Discovery of a luminous giant arc in a high redshift cluster of galaxies

Melnick, J., Altieri, B., Gopal-Krishna, Giraud, E. **271**, L5

On the coherent orientation of spins of spiral galaxies

Garrido, J.L., Battaner, E., Sánchez-Saavedra, M.L., Florido, E. **271**, 84

The distribution of dark matter in the A 2256 cluster

Henry, J.P., Briel, U.G., Nulsen, P.E.J. **271**, 413

Simulations of the evolution of galaxy clusters. II. Dynamics of the intra-cluster gas

Schindler, S., Müller, E. **272**, 137

Photometric CCD sequences in 13 southern Abell clusters

Cunow, B. **272**, 750 (**97**, 541)

Criticism of Gerbal et al.'s analysis of X-ray clusters in the light of modified dynamics

Milgrom, M. **273**, L5

Answer to Milgrom's criticisms

Gerbal, D., Durret, F., Lachièze-Rey, M., Lima-Neto, G. **273**, L9

General study of group membership. I. The sample

Garcia, A.M., Paturel, G., Bottinelli, L., Gouguenheim, L. **273**, 350 (**98**, 7)

The kinematics of the Virgo cluster revisited

Binggeli, B., Popescu, C.C., Tammann, G.A. **273**, 354 (**98**, 275)

The distribution of dark matter in distant cluster-lenses: modelling A 370

Kneib, J.-P., Mellier, Y., Fort, B., Mathez, G. **273**, 367

Large-scale inhomogeneities and galaxy number counts

Phillipps, S. **275**, 357

Detection statistics of Abell and ACO clusters of galaxies in the ROSAT All-Sky Survey

Ebeling, H., Voges, W., Böhringer, H., Edge, A.C. **275**, 360

Galaxy velocities in eight southern clusters

Garilli, B., Maccagni, D., Tarenghi, M. **275**, 687 (**100**, 33)

General study of group membership. II. Determination of nearby groups

Garcia, A.M. **275**, 687 (**100**, 47)

The Local Group motion towards Virgo and the microwave background

Jerjen, H., Tammann, G.A. **276**, 1

Consequences of cluster evolution for the statistics of giant luminous arcs

Bartelmann, M. **276**, 9

X-ray luminosity and spiral fraction of nearby clusters of galaxies. Astrophysical consequences of an observational bias

Andreon, S. **276**, L17

Dynamics of the Pavo-Indus and Grus clouds of galaxies

Fouqué, P., Proust, D., Quintana, H., Ramirez, A. **277**, 361 (**100**, 493)

X-ray emission from a complete sample of Abell clusters of galaxies

Briel, U.G., Henry, J.P. **278**, 379

Redshifts of southern rich clusters

Galli, M., Cappi, A., Focardi, P., Gregorini, L., Vettolani, G. **279**, 336 (**101**, 259)

Spectroscopic observations of the galaxy cluster A 3571 (SC 1344-325)

Quintana, H., de Souza, R. **279**, 675 (**101**, 475)

The galaxy clustering correlation length

Martinez, V.J., Portilla, M., Jones, B.J.T., Paredes, S. **280**, 5

Detection of weak lensing by a massive dark halo in Q 2345+007

Bonnet, H., Fort, B., Kneib, J.-P., Mellier, Y., Soucaill, G. **280**, L7

Peculiar motions in superclusters: Perseus - Pisces

Baffa, C., Chincarini, G., Henry, R.B.C., Manousoyanaki, J. **280**, 20

Timescales of isotropic and anisotropic cluster collapse

Bartelmann, M., Ehlers, J., Schneider, P. **280**, 351

Galaxies: clusters: individual: ...**A 2218**

An optical identification of radio sources in the field of the cluster of galaxies Abell 2218

Le Borgne, J.F., Vilchez-Gómez, R. **271**, 425

A 2256

The distribution of dark matter in the A 2256 cluster

Henry, J.P., Briel, U.G., Nulsen, P.E.J. **271**, 413

A 3571

Spectroscopic observations of the galaxy cluster A 3571 (SC 1344-325)

Quintana, H., de Souza, R. **279**, 675 (**101**, 475)

CL 2236-04

Straight arcs in galaxy clusters

Narasimha, D., Chitre, S.M. **280**, 57

Grus group

Dynamics of the Pavo-Indus and Grus clouds of galaxies

Fouqué, P., Proust, D., Quintana, H., Ramirez, A. **277**, 361 (**100**, 493)

M 81 + NGC 2403 group

Photometric distances to five dwarf galaxies in the vicinity of M 81

Tikhonov, N.A., Karachentsev, I.D. **275**, 39

M 81 group

A possible protogalaxy near M 81

Henkel, C., Stickel, M., Salzer, J.J., Hopp, U., Brouillet, N., Baudry, A. **273**, L15

Pavo-Indus group

Dynamics of the Pavo-Indus and Grus clouds of galaxies

Fouqué, P., Proust, D., Quintana, H., Ramirez, A. **277**, 361 (**100**, 493)

Per Pisc superclusters

Peculiar motions in superclusters: Perseus – Pisces

Baffa, C., Chincarini, G., Henry, R.B.C., Manousoyanaki, J. **280**, 20

Galaxies: compact

On the evolution of helium, nitrogen and oxygen abundances in dwarf irregular galaxies

Pilyugin, L.S. **277**, 42

First results from a deep spectroscopic survey of faint red galaxies: clues on the nature of low redshift dwarf galaxies

Tresse, L., Hammer, F., Le Fèvre, O., Proust, D. **277**, 53

(Galaxies:) cooling flows

Formation and evolution of cluster cooling flows

Friça, A.C.S. **269**, 145

Optical spectroscopy of the emission-line gas in the center of A 1795

Anton, K. **270**, 60

X-ray emission and temperature profiles for optically selected models of elliptical galaxies

Bertin, G., Pignatelli, E., Saglia, R.P. **271**, 381

The extinction and star clusters in NGC 1275

Nørgaard-Nielsen, H.U., Goudfrooij, P., Jørgensen, H.E., Hansen, L. **279**, 61

Galaxies: distances and redshifts

A new approach to the Malmquist bias

Luri, X., Mennessier, M.O., Torra, J., Figueras, F. **267**, 305

Light curve models for type Ia supernovae: physical assumptions, their influence and validity

Höflich, P., Müller, E., Khokhlov, A. **268**, 570

The motion of the Local Group with respect to the microwave background frame: local anomaly and effect of clusters at distances $>40 \text{ h}^{-1} \text{ Mpc}$

Goicoechea, L.J. **269**, L9

The optical identification of the luminous radio galaxy 0409–752

Alvarez, H., Aparici, J., May, J., Navarrete, M. **271**, 435

Erratum: (Letter) Q 1208+1011: the most distant multiply imaged quasar, or a binary?

Magain, P., Surdej, J., Vanderriest, C., Pirenne, B., Hutsemékers, D. **272**, 383

Spectroscopy of 1 Jy and S5 radio source identifications. II

Stickel, M., Kühr, H., Fried, J.W. **272**, 749 (**97**, 483)

New H I observations for some edge-on spiral galaxies

Garcia, A.M., Bottinelli, L., Garnier, R., Gouguenheim, L., Paturel, G. **272**, 753 (**97**, 801)

The southern barred spiral NGC 2442

Sérsic, J.L., Donzelli, C. **273**, 350 (**98**, 21)

The kinematics of the Virgo cluster revisited

Binggeli, B., Popescu, C.C., Tammann, G.A. **273**, 354 (**98**, 275)

Wavelet analysis of cosmic velocity fields

Rauzy, S., Lachièze-Rey, M., Henriksen, R.N. **273**, 357

Identification and morphology of optically faint extragalactic IRAS sources

Klaas, U., Elsässer, H. **274**, 1015 (**99**, 71)

Photometric distances to five dwarf galaxies in the vicinity of M 81

Tikhonov, N.A., Karachentsev, I.D. **275**, 39

On the difficulty of determining the color-term in the Cepheid PLC relation

Fouqué, P., Gieren, W.P. **275**, 213

Statistical properties of stellar populations and surface-brightness fluctuations in galaxies

Buzzoni, A. **275**, 433

The bright end of the planetary nebula luminosity function

Méndez, R.H., Kudritzki, R.P., Ciardullo, R., Jacoby, G.H. **275**, 534

Galaxy velocities in eight southern clusters

Garilli, B., Maccagni, D., Tarengi, M. **275**, 687 (**100**, 33)

The Local Group motion towards Virgo and the microwave background

Jerjen, H., Tammann, G.A. **276**, 1

Photometric distances to the nearby galaxies IC 10, IC 342, and UGCA 86, visible through the Milky Way

Karachentsev, I.D., Tikhonov, N.A. **276**, 327 (**100**, 227)

Spectroscopic observations of radio source identifications from the 1 Jy, S4 and S5 surveys. III

Stickel, M., Kühr, H. **276**, 330 (**100**, 395)

A new technique to gauge luminosity fluctuations in galaxies. I. An application to NGC 1374 and 1375

Lorenz, H., Böhm, P., Capaccioli, M., Richter, G.M., Longo, G. **277**, L15

Dynamics of the Pavo-Indus and Grus clouds of galaxies

Fouqué, P., Proust, D., Quintana, H., Ramirez, A. **277**, 361 (**100**, 493)

Spectroscopic observations of sixteen BL Lacertae candidates

Véron-Cetty, M.-P., Véron, P. **277**, 362 (**100**, 521)

The relation between BL Lacertae objects and OVV quasars, and the unified model of BL Lacertae objects, FR-I and FR-II (G) radio galaxies

Xie, G.Z., Zhang, Y.H., Fan, J.H., Liu, F.K. **278**, 6

The intrinsic shape of early-type galaxies and the scatter around the fundamental plane

Saglia, R.P., Bender, R., Dressler, A. **279**, 75

Redshifts of southern rich clusters

Galli, M., Cappi, A., Focardi, P., Gregorini, L., Vettolani, G. **279**, 336 (**101**, 259)

Spectroscopic observations of the galaxy cluster A 3571 (SC 1344–325)

Quintana, H., de Souza, R. **279**, 675 (**101**, 475)

Optical spectroscopy of 1 Jy, S4 and S5 radio sources. IV

Stickel, M., Kühr, H. **279**, 676 (**101**, 521)

Peculiar motions in superclusters: Perseus – Pisces

Baffa, C., Chincarini, G., Henry, R.B.C., Manousoyanaki, J. **280**, 20

Observational data for the kinematics of the local universe. II. Second set of radial velocity measurements

Bottinelli, L., Durand, N., Fouqué, P., Garnier, R., Gouguenheim, L., Loulergue, M., Paturel, G., Petit, C., Teerikorpi, P. **280**, 344 (**102**, 57)

On general Malmquist corrections to direct and inverse Tully-Fisher distance moduli

Teerikorpi, P. **280**, 443

Galaxies: elliptical and lenticular, cD

Studies of narrow polar rings around E galaxies. I. Observations and model of AM 2020-504

Arnaboldi, M., Capaccioli, M., Cappellaro, E., Held, E.V., Sparke, L. **267**, 21

No molecular gas in M 87: just a monster?

Braine, J., Wiklind, T. **267**, L47

N-body equilibrium figures of early-type galaxies. I. Global structures

Udry, S. **268**, 35

Velocity distributions in spherical elliptical galaxies. II. Measuring line-of-sight stellar velocity distributions

Winsall, M.L., Freeman, K.C. **268**, 443

The motion of the Local Group with respect to the microwave background frame: local anomaly and effect of clusters at distances $>40 \text{ h}^{-1} \text{ Mpc}$

Goicoechea, L.J. **269**, L9

Distribution and motions of atomic hydrogen in lenticular galaxies.

X. The blue S0 galaxy NGC 5102

van Woerden, H., van Driel, W., Braun, R., Rots, A.H. **269**, 15

High resolution $^{12}\text{CO}(2-1)$ observations of the molecular gas in Centaurus A

Rydbeck, G., Wiklind, T., Cameron, M., Wild, W., Eckart, A., Genzel, R., Rothermel, H. **270**, L13

Observations and starburst models of NGC 520

Bernlöhr, K. **270**, 20

Optical spectroscopy of the emission-line gas in the center of A 1795

Anton, K. **270**, 60

The stellar content of elliptical galaxies: optical and infrared colour profiles of M 32 and NGC 205

Peletier, R.F. **271**, 51

The molecular cloud content of early-type galaxies. IV. A molecular bar in NGC 4691

Wiklind, T., Henkel, C., Sage, L.J. **271**, 71

The Kuzmin-Kutuzov two integral axisymmetric galaxy model revisited

Batsleer, P., Dejonghe, H. **271**, 104

X-ray emission and temperature profiles for optically selected models of elliptical galaxies

Bertin, G., Pignatelli, E., Saglia, R.P. **271**, 381

Bars in early- and late-type galaxies

Combes, F., Elmegreen, B.G. **271**, 391

Quantitative morphology of E-S0 galaxies. I. Bulge, lens, disk and envelope in edge-on systems

Michard, R., Marchal, J. **273**, 351 (**98**, 29)

Low-luminosity early-type galaxies. I. Photometry and morphology

Prugniel, P., Bica, E., Klotz, A., Alloin, D. **273**, 353 (**98**, 229)

The kinematics of the Virgo cluster revisited

Binggeli, B., Popescu, C.C., Tammann, G.A. **273**, 354 (**98**, 275)

Dwarf galaxies in the Virgo cluster. II. Photometric techniques and basic data

Binggeli, B., Cameron, L.M. **273**, 355 (**98**, 297)

Warped disks, shells and other features of galaxies in the IC 4296 group, as revealed by Schmidt plate co-addition

Kemp, S.N., Meaburn, J. **274**, 19

Large-scale extinction effects in the disk of S0 galaxies

Michard, R., Simien, F. **274**, L25

Deep kinematics and dynamics of edge-on S0 galaxies. I. NGC 3115

Capaccioli, M., Cappellaro, E., Held, E.V., Vietri, M. **274**, 69

Gravitational imaging by elliptical galaxies: the effects of dark halos

Breimer, T.G., Sanders, R.H. **274**, 96

On the intrinsic shape of elliptical galaxies

Tenjes, P., Busarello, G., Longo, G., Zaggia, S. **275**, 61

A new technique to gauge luminosity fluctuations in galaxies. I. An application to NGC 1374 and 1375

Lorenz, H., Böhm, P., Capaccioli, M., Richter, G.M., Longo, G. **277**, L15

Core sub-structure of elliptical galaxies: the core resolution technique applied to NGC 1399

Stiavelli, M., Möller, P., Zeilinger, W.W. **277**, 421

Do elliptical galaxies have $r^{1/4}$ brightness profiles?

Burkert, A. **278**, 23

CO in the "Black Eye" galaxy NGC 4826

Casoli, F., Gerin, M. **279**, L41

The intrinsic shape of early-type galaxies and the scatter around the fundamental plane

Saglia, R.P., Bender, R., Dressler, A. **279**, 75

Erratum: (Letter) Large-scale extinction effects in the disk of S0 galaxies

Michard, R., Simien, F. **279**, 335

Radio galaxies of intermediate strength. II. VLA observations

Bondi, M., Gregorini, L., Padrielli, L., Parma, P. **279**, 338 (**101**, 431)

High-resolution rotation curves of NGC 7626: dynamics of a young kinematically peculiar core

Balcells, M., Carter, D. **279**, 376

Series inversion of Abel equation for very peaked profiles: the $R^{1/4}$ -law

Bendinelli, O., Ciotti, L., Parmeggiani, G. **279**, 668

Observations of 10 tailed radio sources at 10.6 GHz

Mack, K.-H., Feretti, L., Giovannini, G., Klein, U. **280**, 63

Detection of filaments of ionized gas in NGC 4684

Bettoni, D., Galletta, G., Sage, L.J. **280**, 121

The distribution of ionized gas in early-type galaxies

Buson, L.M., Sadler, E.M., Zeilinger, W.W., Bertin, G., Bertola, F., Danziger, I.J., Dejonghe, H., Saglia, R.P., de Zeeuw, P.T. **280**, 409

Galaxies: evolution

Linear size evolution of extended quasars

Chyży, K.T., Zięba, S. **267**, L27

Models and observations of starbursts. II. Starbursts in interacting galaxies

Bernlöhr, K. **268**, 25

A possible protogalaxy near M 81

Henkel, C., Stickel, M., Salzer, J.J., Hopp, U., Brouillet, N., Baudry, A. **273**, L15

A dynamical determination of the density of galactic halos formed from seeded dark matter

Zhang, J.L., Chau, W.Y., Cheng, K.S., Chan, K.K. **273**, 95

Photometric properties of some AGNs

Kalinkov, M., Kuneva, I., Tsvetanov, Z., Strigachev, A. **273**, 352 (**98**, 165)

Extragalactic ultra-high energy cosmic rays. II. Comparison with experimental data

Rachen, J.P., Stanev, T., Biermann, P.L. **273**, 377

Liouville's equation. V. The full symmetries of r^{-1} -potentials

Dehghani, M.H., Sobouti, Y. **275**, 91

Statistical properties of stellar populations and surface-brightness fluctuations in galaxies

Buzzoni, A. **275**, 433

Bars within bars in lenticular and spiral galaxies: a step in secular evolution?

Friedli, D., Martinet, L. **277**, 27

On the evolution of helium, nitrogen and oxygen abundances in dwarf irregular galaxies

Pilyugin, L.S. **277**, 42

A deep imaging survey of fields around quasars with $z < 1$ Mg II absorption systems

Le Brun, V., Bergeron, J., Boissé, P., Christian, C. **279**, 33

Dynamical evolution of dissipative cloud systems

Theis, C., Hensler, G. **280**, 85

Galaxies: formation

Can the neutrino picture be revived? QSO constraints revisited

Blanchard, A., Buchert, T., Klaffl, R. **267**, 1

Lagrangian perturbation theory: a key-model for large-scale structure

Buchert, T. **267**, L51

The nature of the angular momentum of galaxies: the hydrodynamical theory

Chernin, A.D. **267**, 315

N-body equilibrium figures of early-type galaxies. I. Global structures

Udry, S. **268**, 35

Search for LiH lines at high redshift

de Bernardis, P., Dubrovich, V., Encarnaz, P.J., Maoli, R., Masi, S., Mastrantonio, G., Melchiorri, B., Melchiorri, F., Signore, M., Tanzilli, P.E. **269**, 1

Emission from a damped Ly α absorber at $z=2.81$

Møller, P., Warren, S.J. **270**, 43

Distribution of molecular gas in the primeval galaxy IRAS F 10214+4724

Radford, S.J.E., Brown, R.L., Vanden Bout, P.A. **271**, L21

On the coherent orientation of spins of spiral galaxies

Garrido, J.L., Battaner, E., Sánchez-Saavedra, M.L., Florido, E. **271**, 84

The Kuzmin-Kutuzov two integral axisymmetric galaxy model revisited

Batsleer, P., Dejonghe, H. **271**, 104

Energy and phase space mixing for self-gravitating systems of stars

Kandrup, H.E., Mahon, M.E., Smith Jr., H. **271**, 440

Angular momentum in binary spiral galaxies

Oosterloo, T. **272**, 389

A possible protogalaxy near M 81

Henkel, C., Stickel, M., Salzer, J.J., Hopp, U., Brouillet, N., Baudry, A. **273**, L15

High-resolution simulation of deep pencil beam surveys – analysis of quasi-periodicity

Weiß, A.G., Buchert, T. **274**, 1

H I observations of binary spiral galaxies

Oosterloo, T., Shostak, S. **275**, 354 (**99**, 379)

Consequences of cluster evolution for the statistics of giant luminous arcs

Bartelmann, M. **276**, 9

The V–R diagram: a diagnostic tool for the dynamical classification of spiral galaxies

Campos-Aguilar, A., Prieto, M., García, C. **276**, 16

A possible fast growth of adiabatic cosmological perturbations

Mészáros, A. **278**, 1

Time evolution of a density discontinuity in the one-dimensional gravitational gas

Muriel, A., Feix, M., Jirkovsky, L. **279**, 341

Galaxies: fundamental parameters (classification, colors, luminosities, masses, radii, etc.)

Quantitative morphology of E–S0 galaxies. I. Bulge, lens, disk and envelope in edge-on systems

Michard, R., Marchal, J. **273**, 351 (**98**, 29)

Low-luminosity early-type galaxies. I. Photometry and morphology

Prugniel, P., Bica, E., Klotz, A., Alloin, D. **273**, 353 (**98**, 229)

Kinematics of a sample of globular clusters in the halo and the mass of M 31

Federici, L., Bònoli, F., Ciotti, L., Fusi Pecci, F., Marano, B., Lipovetsky, V.A., Neizvestny, S.I., Spassova, N. **274**, 87

Analysis of the distribution of H II regions in external galaxies.

II. Analysis of the spiral structure

García Gómez, C., Athanassoula, E. **276**, 330 (**100**, 431)

The intrinsic shape of early-type galaxies and the scatter around the fundamental plane

Saglia, R.P., Bender, R., Dressler, A. **279**, 75

Dark matter in spiral galaxies and the Arimoto–Jablonka photometric model

Persic, M., Salucci, P., Ashman, K.M. **279**, 343

Galaxies: general

Secular evolution of isolated barred galaxies. I. Gravitational coupling between stellar bars and interstellar medium

Friedli, D., Benz, W. **268**, 65

The rate of supernovae. I. The data base, the recipe and the uncertainties

Cappellaro, E., Turatto, M., Benetti, S., Tsvetkov, D.Y., Bartunov, O.S., Makarova, I.N. **268**, 472

Determination of absorption-free magnitudes for faint galaxies

Cunow, B. **268**, 491

A study of southern extreme IRAS galaxies. IV. Summary and interpretation of the observations

van den Broek, A.C. **269**, 96

Angular source size measurements and interstellar scattering at 103 MHz using interplanetary scintillation

Janardhan, P., Alurkar, S.K. **269**, 119

Molecular gas in nearby galaxies. I. CO observations of a distance-limited sample

Sage, L.J. **272**, 123

Photometric CCD sequences in 13 southern Abell clusters

Cunow, B. **272**, 750 (**97**, 541)

New H I observations for some edge-on spiral galaxies

García, A.M., Bottinelli, L., Garnier, R., Gouguenheim, L., Patutel, G. **272**, 753 (**97**, 801)

A dynamical determination of the density of galactic halos formed from seeded dark matter

Zhang, J.L., Chau, W.Y., Cheng, K.S., Chan, K.K. **273**, 95

Dwarf galaxies in the Virgo cluster. II. Photometric techniques and basic data

Binggeli, B., Cameron, L.M. **273**, 355 (**98**, 297)

The rate of supernovae. II. The selection effects and the frequencies per unit blue luminosity

Cappellaro, E., Turatto, M., Benetti, S., Tsvetkov, D.Y., Bartunov, O.S., Makarova, I.N. **273**, 383

Large-scale extinction effects in the disk of S0 galaxies

Michard, R., Simien, F. **274**, L25

CO in Messier 51. I. Molecular spiral structure

García-Burillo, S., Guélin, M., Cernicharo, J. **274**, 123

The stellar kinematics of galactic disks

Bottema, R. **275**, 16

Polarization in low luminosity radio galaxies

Capetti, A., Morganti, R., Parma, P., Fanti, R. **275**, 354 (**99**, 407)

Optical positions and 327 MHz flux-densities of UGC galaxies in selected Westerbork fields

Oly, C., Israel, F.P. **276**, 327 (**100**, 263)

Analysis of the distribution of H II regions in external galaxies.

II. Analysis of the spiral structure

García Gómez, C., Athanassoula, E. **276**, 330 (**100**, 431)

Molecular gas in nearby galaxies. II. The data

Sage, L.J. 277, 363 (100, 537)

Rapid X-ray variability in the I Zw 1 class object IRAS 13224-3809

Boller, T., Trümper, J., Molendi, S., Fink, H., Schaeidt, S., Caulet, A., Dennefeld, M. 279, 53

Erratum: (Letter) Large-scale extinction effects in the disk of S0 galaxies

Michard, R., Simien, F. 279, 335

Radio galaxies of intermediate strength. II. VLA observations

Bondi, M., Gregorini, L., Padrielli, L., Parma, P. 279, 338 (101, 431)

IRAS CPC observations of galaxies. I. Catalog and atlas

van Driel, W., de Graauw, T., de Jong, T., Wesselius, P.R. 279, 681 (101, 207)

Observational data for the kinematics of the local universe. II. Second set of radial velocity measurements

Bottinelli, L., Durand, N., Fouqué, P., Garnier, R., Gouguenheim, L., Loulergue, M., Paturel, G., Petit, C., Teerikorpi, P. 280, 344 (102, 57)

Galaxies: individual: . . .

A 1795

Optical spectroscopy of the emission-line gas in the center of A 1795

Anton, K. 270, 60

Akn 564

An analysis of the spectra of 3 Seyfert-I galaxies with strong CaII emission

van Groningen, E. 272, 25

AM 2020-504

Studies of narrow polar rings around E galaxies. I. Observations and model of AM 2020-504

Arnaboldi, M., Capaccioli, M., Cappellaro, E., Held, E.V., Sparke, L. 267, 21

Studies of narrow polar rings around E galaxies. II. The UV spectrum of AM 2020-504

Arnaboldi, M., Capaccioli, M., Barbaro, G., Buson, L., Longo, G. 268, 103

Cen A

Radio polarization surveys of Centaurus A (NGC 5128). I. The complete radio source at λ 6.3 cm

Junkes, N., Haynes, R.F., Harnett, J.J., Jauncey, D.L. 269, 29

Erratum: Radio polarization surveys of Centaurus A (NGC 5128). I. The complete radio source at λ 6.3 cm

Junkes, N., Haynes, R.F., Harnett, J.J., Jauncey, D.L. 274, 1009

Cyg A

The polarized spectrum of Cygnus A

Jackson, N., Tadhunter, C.N. 272, 105

IC 10

H₂O masers in nearby irregular galaxies

Becker, R., Henkel, C., Wilson, T.L., Wouterloot, J.G.A. 268, 483

Photometric distances to the nearby galaxies IC 10, IC 342, and UGCA 86, visible through the Milky Way

Karachentsev, I.D., Tikhonov, N.A. 276, 327 (100, 227)

IC 342

Photometric distances to the nearby galaxies IC 10, IC 342, and UGCA 86, visible through the Milky Way

Karachentsev, I.D., Tikhonov, N.A. 276, 327 (100, 227)

IRAS 03355+0104

Emission-line galaxies in the Hamburg Quasar Survey

Vogel, S., Engels, D., Hagen, H.-J., Groote, D., Wisotzki, L., Cordis, L., Reimers, D. 273, 353 (98, 193)

IRAS 10214+4724

Distribution of molecular gas in the primeval galaxy IRAS F 10214+4724

Radford, S.J.E., Brown, R.L., Vanden Bout, P.A. 271, L21

Water at $z = 2.286?$

Encenaz, P.J., Combes, F., Casoli, F., Gerin, M., Pagani, L., Horellou, C., Gac, C. 273, L19

IRAS 13224-3809

Rapid X-ray variability in the I Zw 1 class object IRAS 13224-3809

Boller, T., Trümper, J., Molendi, S., Fink, H., Schaeidt, S., Caulet, A., Dennefeld, M. 279, 53

IZw 1

An analysis of the spectra of 3 Seyfert-I galaxies with strong CaII emission

van Groningen, E. 272, 25

M 31

New globular cluster candidates in the inner regions of M 31 and the projected density profile of the cluster system

Battistini, P.L., Bònoli, F., Casavecchia, M., Ciotti, L., Federici, L., Fusi Pecci, F. 272, 77

Astrometry in the field of M 31

Magnier, E.A., Lewin, W.H.G., van Paradijs, J., Hasinger, G., Pietsch, W., Trümper, J. 272, 695

An atlas of supernova remnant candidates in Messier 31

Braun, R., Walterbos, R.A.M. 273, 355 (98, 327)

Kinematics of a sample of globular clusters in the halo and the mass of M 31

Federici, L., Bònoli, F., Ciotti, L., Fusi Pecci, F., Marano, B., Lipovetsky, V.A., Neizvestny, S.I., Spassova, N. 274, 87

Automated identification of OB associations in M 31

Magnier, E.A., Battinelli, P., Lewin, W.H.G., Haiman, Z., van Paradijs, J., Hasinger, G., Pietsch, W., Supper, R., Trümper, J. 278, 36

CO observations of a region of strongly polarized radio continuum emission in the SW arms of M 31

Berkhuijsen, E.M., Bajaja, E., Beck, R. 279, 359

An objective-prism survey of emission-line objects in M 31

Meyssonier, N., Lequeux, J., Azzopardi, M. 280, 346 (102, 251)

M 32

The stellar content of elliptical galaxies: optical and infrared colour profiles of M 32 and NGC 205

Peletier, R.F. 271, 51

M 33

The VLA-WSRT survey of M 33: statistical properties of a sample of optically selected supernova remnants

Duric, N., Viallefond, F., Goss, W.M., van der Hulst, J.M. 275, 353 (99, 217)

M 51

On the predictive power of the minimum energy condition. I. Isotropic steady-state configurations

Pohl, M. **270**, 91

CO in Messier 51. I. Molecular spiral structure

García-Burillo, S., Guélin, M., Cernicharo, J. **274**, 123

CO in Messier 51. II. Molecular cloud dynamics

García-Burillo, S., Combes, F., Gerin, M. **274**, 148

Dust in spiral galaxies. I

Chini, R., Krügel, E. **279**, 385

M 81

A model of the tidal interaction between M 81 and NGC 3077

Thomasson, M., Donner, K.J. **272**, 153

A gravitational galactic wake in the M 81 group

Donner, K.J., Thomasson, M. **279**, 28

Interstellar and intergalactic gas in the direction of SN 1993J in M 81

Vladilo G., Centurión, M., de Boer, K.S., King, D.L., Lipman, K., Stegert, J., Unger, S.W., Walton, N.A. **280**, L11

Intergalactic and galactic clouds on the line of sight to SN 1993J in M 81 seen in IUE spectra

de Boer, K.S., Rodríguez Pascual, P., Wamsteker, W., Sonneborn, G., Fransson, C., Bomans, D.J., Kirshner, R.P. **280**, L15

M 82

Galactic dynamics and magnetic fields. I. Superbubbles in galactic central regions

Lesch, H., Harnett, J. **268**, 58

Rotation of stars and gas in M 82

McKeith, C.D., Castles, J., Greve, A., Downes, D. **272**, 98

The clouds of M 82. I. HCN in the southwest part

Brouillet, N., Schilke, P. **277**, 381

M 83

Magnetic fields and thermal gas in M 83

Neininger, N., Beck, R., Sukumar, S., Allen, R.J. **274**, 687

Spiral structure of M 83: distribution and kinematics of the atomic and ionized hydrogen

Tilanus, R.P.J., Allen, R.J. **274**, 707

M 87

No molecular gas in M 87: just a monster?

Braine, J., Wiklind, T. **267**, L47

M 104

The bulge of M 104: stellar content and kinematics

Hes, R., Peletier, R.F. **268**, 539

Mkn 231

An analysis of the spectra of 3 Seyfert-I galaxies with strong Ca II emission

van Groningen, E. **272**, 25

Mkn 297

Powering the starburst in the merging system Mkn 297

Sage, L.J., Loose, H.-H., Salzer, J.J. **273**, 6

Mkn 423

The merging Seyfert galaxies Mkn 423 and Mkn 739

Rafanelli, P., Marziani, P., Birkle, K., Thiele, U. **275**, 451

Mkn 603

A study of the unusual starburst galaxy Markarian 603 (=NGC 1222)

Petrosian, A.R., Burenkov, A.N. **279**, 21

Mkn 739

The merging Seyfert galaxies Mkn 423 and Mkn 739

Rafanelli, P., Marziani, P., Birkle, K., Thiele, U. **275**, 451

Mkn 766

Variability of the Seyfert galaxy Mkn 766 in the ROSAT All Sky Survey

Molendi, S., Maccacaro, T., Schaeidt, S. **271**, 18

NGC 205

The stellar content of elliptical galaxies: optical and infrared colour profiles of M 32 and NGC 205

Peletier, R.F. **271**, 51

NGC 253

Dense gas in nearby galaxies. VI. A large $^{12}\text{C}/^{13}\text{C}$ ratio in a nuclear starburst environment

Henkel, C., Mauersberger, R., Wiklind, T., Hüttemeister, S., Lemme, C., Millar, T.J. **268**, L17

Resolving the kinematical structure within the nuclear starburst of NGC 253

Muñoz-Tuñón, C., Vilchez, J.M., Castañeda, H.O. **278**, 364

NGC 472

New Westerbork observations of the H I cloud near NGC 4472

Henning, P.A., Sancisi, R., McNamara, B.R. **268**, 536

NGC 520

Observations and starburst models of NGC 520

Bernlöhr, K. **270**, 20

NGC 660

Dust in spiral galaxies. I

Chini, R., Krügel, E. **279**, 385

NGC 891

Vertical magnetic fields above the discs of spiral galaxies

Brandenburg, A., Donner, K.J., Moss, D., Shukurov, A., Sokoloff, D.D., Tuominen, I. **271**, 36

1.3 mm emission in the disk of NGC 891: evidence of cold dust

Guélin, M., Zylka, R., Mezger, P.G., Haslam, C.G.T., Kreysa, E., Lemke, R., Sievers, A.W. **279**, L37

NGC 1052

On the intrinsic shape of elliptical galaxies

Tenjes, P., Busarello, G., Longo, G., Zaggia, S. **275**, 61

NGC 1055

The stellar dynamics of "box/peanut" galactic bulges. II. NGC 1055

Shaw, M. **280**, 33

NGC 1068

The 1.5–1.7 μm spectrum of cool stars: line identifications, indices for spectral classification and the stellar content of the Seyfert galaxy NGC 1068

Origlia, L., Moorwood, A.F.M., Oliva, E. **280**, 536

NGC 1097

Isophote twists in the nuclear regions of barred spiral galaxies
Shaw, M.A., Combes, F., Axon, D.J., Wright, G.S. **273**, 31

NGC 1275

High resolution CO observations of NGC 1275
Reuter, H.P., Pohl, M., Lesch, H., Sievers, A.W. **277**, 21
 The extinction and star clusters in NGC 1275
Nørgaard-Nielsen, H.U., Goudfrooij, P., Jørgensen, H.E., Hansen, L. **279**, 61

NGC 1399

Core sub-structure of elliptical galaxies: the core resolution technique applied to NGC 1399
Stiavelli, M., Møller, P., Zeilinger, W.W. **277**, 421

NGC 1808

A comprehensive study of the peculiar spiral galaxy NGC 1808. II. VLA H I line observations
Koribalski, B., Dahlem, M., Mebold, U., Brinks, E. **268**, 14

NGC 1947

On the intrinsic shape of elliptical galaxies
Tenjes, P., Busarello, G., Longo, G., Zaggia, S. **275**, 61

NGC 2442

The southern barred spiral NGC 2442
Sérsic, J.L., Donzelli, C. **273**, 350 (**98**, 21)

NGC 3077

A model of the tidal interaction between M 81 and NGC 3077
Thomasson, M., Donner, K.J. **272**, 153
 A gravitational galactic wake in the M 81 group
Donner, K.J., Thomasson, M. **279**, 28

NGC 3079

The stellar dynamics of "box/peanut" galactic bulges. I. NGC 3079
Shaw, M., Wilkinson, A., Carter, D. **268**, 511

NGC 3115

Deep kinematics and dynamics of edge-on S0 galaxies. I. NGC 3115
Capaccioli, M., Cappellaro, E., Held, E.V., Vietri, M. **274**, 69

NGC 3516

Spectroscopic monitoring of active galactic nuclei. II. The Seyfert-1 galaxy NGC 3516
Wanders, I., van Groningen, E., Alloin, D., Aretxaga, I., Axon, D., de Bruyn, A.G., Clavel, J., Dietrich, M., Goad, M.R., Gondhalekar, P., Horne, K., Jackson, N., Kollatschny, W., Laurikainen, E., Lawrence, A., Masegosa, J., O'Brien, P.T., del Olmo, A., Penston, M.V., Perea, J., Pérez, E., Pérez-Fournon, I., Perry, J.J., Robinson, A., Rodríguez Espinosa, J.M., Stirpe, G.M., Tadhunter, C., Terlevich, R., Unger, S., Wagner, S.J., Williams, R. **269**, 39

NGC 4051

Variability and emission mechanisms in Seyfert 1 galaxies: a near-infrared outburst in NGC 4051
Salvati, M., Hunt, L.K., Calamai, G., Del Zanna, G., Giannuzzo, E., Kidger, M., Mannucci, F., Stanga, R.M., Wamsteker, W. **274**, 174

NGC 4151

The Seyfert galaxy NGC 4151: peak activity on the decline?
Christopoulou, P.-E., Goudis, C.D. **272**, 407
 Delay mapping of the scattering medium in active galactic nuclei
Giannuzzo, E., Salvati, M. **272**, 411
 SIGMA observations of extragalactic sources
Bassani, L., Jourdain, E., Roques, J.P., Mandrou, P., Ballet, J., Cordier, B., Lebrun, F., Paul, J., Finogenov, A., Churazov, E., Gilfanov, M., Sunyaev, R., Dyachkov, A., Khavenson, N., Novikov, B., Kuleshova, N. **272**, 729 (**97**, 89)
 The evidence for anisotropy of the ionizing continuum of NGC 4151
Schulz, H., Komossa, S. **278**, 29

NGC 4258

Structure of the spiral arms of NGC 4258 in H α and at 2000 Å
Courtès, G., Petit, H., Hua, C.T., Martin, P., Blecha, A., Huguenin, D., Golay, M. **268**, 419

NGC 4388

A detailed analysis of the extended ionized nebulosity surrounding NGC 4388
Petitjean, P., Durret, F. **277**, 365

NGC 4414

NGC 4414: a flocculent galaxy with a high gas surface density
Braine, J., Combes, F., van Driel, W. **280**, 451

NGC 4472

X-ray emission and temperature profiles for optically selected models of elliptical galaxies
Bertin, G., Pignatelli, E., Saglia, R.P. **271**, 381

NGC 4593

X-ray spectral variability of the Seyfert galaxy NGC 4593
Ghosh, K.K., Soundararajaperumal, S. **273**, 397

NGC 4631

Vertical magnetic fields above the discs of spiral galaxies
Brandenburg, A., Donner, K.J., Moss, D., Shukurov, A., Sokoloff, D.D., Tuominen, I. **271**, 36

NGC 4684

Detection of filaments of ionized gas in NGC 4684
Bettoni, D., Galletta, G., Sage, L.J. **280**, 121

NGC 4691

The molecular cloud content of early-type galaxies. IV. A molecular bar in NGC 4691
Wiklund, T., Henkel, C., Sage, L.J. **271**, 71

NGC 4736

Distribution and motions of H I in the ringed galaxy NGC 4736
Mulder, P.S., van Driel, W. **272**, 63
 Isophote twists in the nuclear regions of barred spiral galaxies
Shaw, M.A., Combes, F., Axon, D.J., Wright, G.S. **273**, 31

NGC 4782/83

The high-velocity encounter of NGC 4782/4783: comparison of numerical experiments and observations
Madejsky, R., Bien, R. **280**, 383

NGC 4826

CO in the "Black Eye" galaxy NGC 4826

Casoli, F., Gerin, M. **279**, L41**NGC 4945**

The distribution of CO in NGC 4945

Dahlem, M., Golla, G., Whiteoak, J.B., Wielebinski, R., Hüttemeier, S., Henkel, C. **270**, 29**NGC 5102**

Distribution and motions of atomic hydrogen in lenticular galaxies.

X. The blue S0 galaxy NGC 5102

van Woerden, H., van Driel, W., Braun, R., Rots, A.H. **269**, 15**NGC 5128**High resolution $^{12}\text{CO}(2-1)$ observations of the molecular gas in Centaurus A*Rydbeck, G., Wiklund, T., Cameron, M., Wild, W., Eckart, A., Genzel, R., Rothermel, H.* **270**, L13

Initial results from OSSE on the Compton Observatory

Johnson, W.N., Kurfess, J.D., Purcell, W.R., Matz, S.M., Ulmer, M.P., Strickman, M.S., Murphy, R.J., Grabelsky, D.A., Kinzer, R.L., Share, G.H., Cameron, R.A., Kroeger, R.A., Maisack, M., Jung, G.V., Jensen, C.M., Clayton, D.D., Leising, M.D., Grove, J.E., Dyer, C.S. **272**, 725 (**97**, 21)

SIGMA observations of extragalactic sources

Bassani, L., Jourdain, E., Roques, J.P., Mandrou, P., Ballet, J., Cordier, B., Lebrun, F., Paul, J., Finoginov, A., Churazov, E., Gilfanov, M., Sunyaev, R., Dyachkov, A., Khavenson, N., Novikov, B., Kuleshova, N. **272**, 729 (**97**, 89)

Hard X-ray observation of Centaurus A

Ubertini, P., Bazzano, A., Cocchi, M., La Padula, C., Sood, R. **272**, 730 (**97**, 105)

Studies of hard X-ray source variability using BATSE

Paciesas, W.S., Harmon, B.A., Pendleton, G.N., Finger, M.H., Fishman, G.J., Meegan, C.A., Rubin, B.C., Wilson, R.B. **272**, 739 (**97**, 253)**NGC 5548**

NGC 5548: a perfect laboratory for testing AGN models?

Rokaki, E., Collin-Souffrin, S., Magnan, C. **272**, 8**NGC 5728**

Isophote twists in the nuclear regions of barred spiral galaxies

Shaw, M.A., Combes, F., Axon, D.J., Wright, G.S. **273**, 31**NGC 5898**

On the intrinsic shape of elliptical galaxies

Tenjes, P., Busarello, G., Longo, G., Zaggia, S. **275**, 61**NGC 5953/4**

A photometric and kinematic study of the interacting pair NGC 5953/54

Reshetnikov, V.P. **280**, 400**NGC 6240**

Compact subarcsec structures of the double nucleus of NGC 6240 revealed with HST

Barbieri, C., Rafanelli, P., Schulz, H., Albrecht, R., Blades, J.C., Boksenberg, A., Crane, P., Deharveng, J.M., Disney, M.J., Jakobsen, P., Kamperman, T.M., King, I.R., Macchetto, F., Mackay, C.D., Paresce, F., Weigelt, G., Baxter, D., Greenfield, P., Jedrzejewski, R., Nota, A., Sparks, W.B. **273**, 1

Extinction and the wavelength-dependent positions of the nuclei of NGC 6240

Schulz, H., Fried, J.W., Röser, S., Keel, W.C. **277**, 416**NGC 6814**

Similarity of the variability patterns in the Exosat and Ginga folded light curves of the Seyfert galaxy NGC 6814

Abramowicz, M.A., Bao, G., Karas, V., Lanza, A. **272**, 400**NGC 6946**

Widespread high velocity gas in the spiral galaxy NGC 6946

Kamphuis, J., Sancisi, R. **273**, L31

Ionized gas and intrinsic magnetic fields in the spiral galaxy NGC 6946

Ehle, M., Beck, R. **273**, 45**NGC 6951**

NGC 6951: circumnuclear star formation around a Seyfert nucleus

Boer, B., Schulz, H. **277**, 397**NGC 7626**

High-resolution rotation curves of NGC 7626: dynamics of a young kinematically peculiar core

Balcells, M., Carter, D. **279**, 376**NGC 7714**

Models and observations of starbursts. II. Starbursts in interacting galaxies

Bernlöhr, K. **268**, 25**NGC 7715**

Models and observations of starbursts. II. Starbursts in interacting galaxies

Bernlöhr, K. **268**, 25**PKS 0409-752**

The optical identification of the luminous radio galaxy 0409-752

Alvarez, H., Aparici, J., May, J., Navarrete, M. **271**, 435**UGC 3490**

Dust in spiral galaxies. I

Chini, R., Krügel, E. **279**, 385**UGC 7636**

New Westerbork observations of the H I cloud near NGC 4472

Henning, P.A., Sancisi, R., McNamara, B.R. **268**, 536**UGCA 86**

Photometric distances to the nearby galaxies IC 10, IC 342, and UGCA 86, visible through the Milky Way

Karachentsev, I.D., Tikhonov, N.A. **276**, 327 (**100**, 227)**3C 66B**

The radio and optical structure of 3C 66B

Jackson, N., Sparks, W.B., Miley, G.K., Macchetto, F. **269**, 128**Galaxies: interactions**

A comprehensive study of the peculiar spiral galaxy NGC 1808. II. VLA H I line observations

Koribalski, B., Dahlem, M., Mebold, U., Brinks, E. **268**, 14

- Models and observations of starbursts. II. Starbursts in interacting galaxies
 Bernlöhr, K. **268**, 25
- New Westerbork observations of the H I cloud near NGC 4472
 Henning, P.A., Sancisi, R., McNamara, B.R. **268**, 536
- A CO(1-0) and CO(2-1) survey of nearby spiral galaxies. III. More H₂ gas in perturbed galaxies?
 Braine, J., Combes, F. **269**, 7
- A study of southern extreme IRAS galaxies. IV. Summary and interpretation of the observations
 van den Broek, A.C. **269**, 96
- Chaotic behaviour in binary galaxies
 Stewart, P. **269**, 135
- Observations and starburst models of NGC 520
 Bernlöhr, K. **270**, 20
- Energy and phase space mixing for self-gravitating systems of stars
 Kandrup, H.E., Mahon, M.E., Smith Jr., H. **271**, 440
- A model of the tidal interaction between M 81 and NGC 3077
 Thomasson, M., Donner, K.J. **272**, 153
- Angular momentum in binary spiral galaxies
 Oosterloo, T. **272**, 389
- A CO(1-0) and CO(2-1) survey of nearby spiral galaxies. I. Data and observations
 Braine, J., Combes, F., Casoli, F., Dupraz, C., Gérin, M., Klein, U., Wielebinski, R., Brouillet, N. **272**, 754 (**97**, 887)
- Compact subarcsec structures of the double nucleus of NGC 6240 revealed with HST
 Barbieri, C., Rafanelli, P., Schulz, H., Albrecht, R., Blades, J.C., Boksenberg, A., Crane, P., Deharveng, J.M., Disney, M.J., Jakobsen, P., Kamperman, T.M., King, I.R., Macchetto, F., Mackay, C.D., Paresce, F., Weigelt, G., Baxter, D., Greenfield, P., Jedrzejewski, R., Nota, A., Sparks, W.B. **273**, 1
- Powering the starburst in the merging system Mkn 297
 Sage, L.J., Loose, H.-H., Salzer, J.J. **273**, 6
- A photometric study of interacting galaxies. I. Observations
 Reshetnikov, V.P., Hagen-Thorn, V.A., Yakovleva, V.A. **275**, 353 (**99**, 257)
- H I observations of binary spiral galaxies
 Oosterloo, T., Shostak, S. **275**, 354 (**99**, 379)
- Effects of interactions on the nuclear near-infrared properties of spiral galaxies
 Giuricin, G., Biviano, A., Girardi, M., Mardirossian, F., Mezzetti, M. **275**, 390
- The merging Seyfert galaxies Mkn 423 and Mkn 739
 Rafanelli, P., Marziani, P., Birkle, K., Thiele, U. **275**, 451
- X-ray luminosity and spiral fraction of nearby clusters of galaxies. Astrophysical consequences of an observational bias
 Andreon, S. **276**, L17
- First results from a deep spectroscopic survey of faint red galaxies: clues on the nature of low redshift dwarf galaxies
 Tresse, L., Hammer, F., Le Fèvre, O., Proust, D. **277**, 53
- Extinction and the wavelength-dependent positions of the nuclei of NGC 6240
 Schulz, H., Fried, J.W., Röser, S., Keel, W.C. **277**, 416
- A photometric study of interacting galaxies. II. Analysis of the results
 Reshetnikov, V.P., Hagen-Thorn, V.A., Yakovleva, V.A. **278**, 351
- A study of the unusual starburst galaxy Markarian 603 (=NGC 1222)
 Petrosian, A.R., Burenkov, A.N. **279**, 21
- A gravitational galactic wake in the M 81 group
 Donner, K.J., Thomasson, M. **279**, 28
- CO in the "Black Eye" galaxy NGC 4826
 Casoli, F., Gerin, M. **279**, L41
- The extinction and star clusters in NGC 1275
 Nørgaard-Nielsen, H.U., Goudfrooij, P., Jørgensen, H.E., Hansen, L. **279**, 61
- Near-infrared images of IRAS galaxies
 Zenner, S., Lenzen, R. **279**, 337 (**101**, 363)
- High-resolution rotation curves of NGC 7626: dynamics of a young kinematically peculiar core
 Balcells, M., Carter, D. **279**, 376
- Change in angular velocity of perturbed galactic bars
 Sundin, M., Donner, K.J., Sundelius, B. **280**, 105
- The high-velocity encounter of NGC 4782/4783: comparison of numerical experiments and observations
 Madejsky, R., Bien, R. **280**, 383
- A photometric and kinematic study of the interacting pair NGC 5953/54
 Reshetnikov, V.P. **280**, 400
- (Galaxies:) intergalactic medium**
- Coordinated UV-optical observations of quasars: the evolution of the Lyman absorption
 Cristiani, S., Giallongo, E., Buson, L.M., Gouiffes, C., La Franca, F. **268**, 86
- New Westerbork observations of the H I cloud near NGC 4472
 Henning, P.A., Sancisi, R., McNamara, B.R. **268**, 536
- Galactic winds. II. Rôle of the disk-halo interface in cosmic ray driven galactic winds
 Breitschwerdt, D., McKenzie, J.F., Völk, H.J. **269**, 54
- Formation and evolution of cluster cooling flows
 Friaça, A.C.S. **269**, 145
- Emission from a damped Ly α absorber at $z=2.81$
 Møller, P., Warren, S.J. **270**, 43
- Optical spectroscopy of the emission-line gas in the center of A 1795
 Anton, K. **270**, 60
- Simulations of the evolution of galaxy clusters. II. Dynamics of the intra-cluster gas
 Schindler, S., Müller, E. **272**, 137
- Extragalactic ultra-high energy cosmic rays. I. Contribution from hot spots in FR-II radio galaxies
 Rachen, J.P., Biermann, P.L. **272**, 161
- A possible protogalaxy near M 81
 Henkel, C., Stickel, M., Salzer, J.J., Hopp, U., Brouillet, N., Baudry, A. **273**, L15
- Ram-pressure accretion of intergalactic gas clouds by galaxies
 Sofue, Y., Wakamatsu, K. **273**, 79
- Extragalactic ultra-high energy cosmic rays. II. Comparison with experimental data
 Rachen, J.P., Stanev, T., Biermann, P.L. **273**, 377
- Warped disks, shells and other features of galaxies in the IC 4296 group, as revealed by Schmidt plate co-addition
 Kemp, S.N., Meaburn, J. **274**, 19
- Interstellar Ca II and Na I in the SN 1987A field. I. Foreground and intermediate velocity gas
 Molaro, P., Vladilo, G., Monai, S., D'Odorico, S., Ferlet, R., Vidal-Madjar, A., Dennefeld, M. **274**, 505
- X-ray luminosity and spiral fraction of nearby clusters of galaxies. Astrophysical consequences of an observational bias
 Andreon, S. **276**, L17
- High resolution CO observations of NGC 1275
 Reuter, H.P., Pohl, M., Lesch, H., Sievers, A.W. **277**, 21
- A semi-analytic method for calculating D_A evolution
 Zuo, L. **278**, 343
- A gravitational galactic wake in the M 81 group
 Donner, K.J., Thomasson, M. **279**, 28

- The extinction and star clusters in NGC 1275
Nørgaard-Nielsen, H.U., Goudfroot, P., Jørgensen, H.E., Hansen, L. **279**, 61
- Interstellar and intergalactic gas in the direction of SN 1993J in M 81
Vladilo G., Centurión, M., de Boer, K.S., King, D.L., Lipman, K., Stegert, J., Unger, S.W., Walton, N.A. **280**, L11
- Intergalactic and galactic clouds on the line of sight to SN 1993J in M 81 seen in IUE spectra
de Boer, K.S., Rodríguez Pascual, P., Wamsteker, W., Sonneborn, G., Fransson, C., Bomans, D.J., Kirshner, R.P. **280**, L15
- Observations of 10 tailed radio sources at 10.6 GHz
Mack, K.-H., Feretti, L., Giovannini, G., Klein, U. **280**, 63
- Galaxies: interstellar matter**
- Polarization properties at 1.4 GHz of low luminosity radio galaxies
Parma, P., Morganti, R., Capetti, A., Fanti, R., de Ruiter, H.R. **267**, 31
- A comprehensive study of the peculiar spiral galaxy NGC 1808. II. VLA H I line observations
Koribalski, B., Dahlem, M., Mebold, U., Brinks, E. **268**, 14
- Dense gas in nearby galaxies. VI. A large $^{12}\text{C}/^{13}\text{C}$ ratio in a nuclear starburst environment
Henkel, C., Mauersberger, R., Wiklind, T., Hüttemeister, S., Lemme, C., Millar, T.J. **268**, L17
- Secular evolution of isolated barred galaxies. I. Gravitational coupling between stellar bars and interstellar medium
Friedli, D., Benz, W. **268**, 65
- Structure of the spiral arms of NGC 4258 in H α and at 2000 Å
Courtès, G., Petit, H., Hua, C.T., Martin, P., Blecha, A., Huguenin, D., Golay, M. **268**, 419
- Galactic winds. II. Role of the disk-halo interface in cosmic ray driven galactic winds
Breitschwerdt, D., McKenzie, J.F., Völk, H.J. **269**, 54
- On the transparency of the inner regions of early-type spiral galaxies
Simien, F., Morenas, V., Valentijn, E.A. **269**, 111
- High resolution $^{12}\text{CO}(2-1)$ observations of the molecular gas in Centaurus A
Rydbeck, G., Wiklind, T., Cameron, M., Wild, W., Eckart, A., Genzel, R., Rothmel, H. **270**, L13
- Optical spectroscopy of the emission-line gas in the center of A 1795
Anton, K. **270**, 60
- The lithium-poor stars: additional observations
Spite, M., Molaro, P., François, P., Spite, F. **271**, L1
- Results of the ESO-SEST Key Programme: CO in the Magellanic Clouds. II. CO in the SW region of the Small Magellanic Cloud
Rubio, M., Lequeux, J., Boulanger, F., Booth, R.S., Garay, G., de Graauw, T., Israël, F.P., Johansson, L.E.B., Kutner, M.L., Nyman, L.-Å. **271**, 1
- Results of the ESO-SEST Key Programme: CO in the Magellanic Clouds. III. Molecular gas in the Small Magellanic Cloud
Rubio, M., Lequeux, J., Boulanger, F. **271**, 9
- Distribution of molecular gas in the primeval galaxy IRAS F 10214+4724
Radford, S.J.E., Brown, R.L., Vanden Bout, P.A. **271**, L21
- The molecular cloud content of early-type galaxies. IV. A molecular bar in NGC 4691
Wiklind, T., Henkel, C., Sage, L.J. **271**, 71
- Bars in early- and late-type galaxies
Combes, F., Elmegreen, B.G. **271**, 391
- Grand design and flocculent spiral structure in computer simulations with star formation and gas heating
Elmegreen, B.G., Thomasson, M. **272**, 37
- Rotation of stars and gas in M 82
McKeith, C.D., Castles, J., Greve, A., Downes, D. **272**, 98
- Molecular gas in nearby galaxies. I. CO observations of a distance-limited sample
Sage, L.J. **272**, 123
- A CO(1-0) and CO(2-1) survey of nearby spiral galaxies. I. Data and observations
Braine, J., Combes, F., Casoli, F., Dupraz, C., Gérin, M., Klein, U., Wielebinski, R., Brouillet, N. **272**, 754 (**97**, 887)
- Compact subarcsec structures of the double nucleus of NGC 6240 revealed with HST
Barbieri, C., Rafanelli, P., Schulz, H., Albrecht, R., Blades, J.C., Boksenberg, A., Crane, P., Deharveng, J.M., Disney, M.J., Jakobsen, P., Kamperman, T.M., King, I.R., Macchetto, F., Mackay, C.D., Paresce, F., Weigelt, G., Baxter, D., Greenfield, P., Jedrzejewski, R., Nota, A., Sparks, W.B. **273**, 1
- Water at $z = 2.286?$
Encenaz, P.J., Combes, F., Casoli, F., Gerin, M., Pagani, L., Horellou, C., Gac, C. **273**, L19
- Widespread high velocity gas in the spiral galaxy NGC 6946
Kamphuis, J., Sancisi, R. **273**, L31
- Ionized gas and intrinsic magnetic fields in the spiral galaxy NGC 6946
Ehle, M., Beck, R. **273**, 45
- Long slit spectroscopy of extended ionized nebulosities around a sample of nearby Seyfert galaxies
Durret, F., Boisson, C., Petitjean, P., Bergeron, J. **273**, 355 (**98**, 365)
- Torus dynamos for galaxies and accretion disks. I. The axisymmetric $\alpha\omega$ -dynamo embedded into vacuum
Deinzer, W., Gresser, H., Schmitt, D. **273**, 405
- Large-scale extinction effects in the disk of S0 galaxies
Michard, R., Simien, F. **274**, L25
- Interstellar Ca II and Na I in the SN1987A field. II. LMC gas
Vladilo, G., Molaro, P., Monai, S., D'Odorico, S., Ferlet, R., Vidal-Madjar, A., Dennefeld, M. **274**, 37
- CO in Messier 51. I. Molecular spiral structure
García-Burillo, S., Guélin, M., Cernicharo, J. **274**, 123
- CO in Messier 51. II. Molecular cloud dynamics
García-Burillo, S., Combes, F., Gerin, M. **274**, 148
- Interstellar Ca II and Na I in the SN 1987A field. I. Foreground and intermediate velocity gas
Molaro, P., Vladilo, G., Monai, S., D'Odorico, S., Ferlet, R., Vidal-Madjar, A., Dennefeld, M. **274**, 505
- Magnetic fields and thermal gas in M 83
Neininger, N., Beck, R., Sukumar, S., Allen, R.J. **274**, 687
- Spiral structure of M 83: distribution and kinematics of the atomic and ionized hydrogen
Tilanus, R.P.J., Allen, R.J. **274**, 707
- C and O nucleosynthesis in starbursts: the connection between distant mergers, the Galaxy, and the solar system
Henkel, C., Mauersberger, R. **274**, 730
- Molecular clouds in the 30 Doradus halo
Garay, G., Rubio, M., Ramírez, S., Johansson, L.E.B., Thaddeus, P. **274**, 743
- Results of the ESO-SEST Key Programme on CO in the Magellanic Clouds. I. A survey of CO in the LMC and the SMC
Israel, F.P., Johansson, L.E.B., Lequeux, J., Booth, R.S., Nyman, L.-Å., Crane, P., Rubio, M., de Graauw, T., Kutner, M.L., Gredel, R., Boulanger, F., Garay, G., Westerlund, B.E. **276**, 25
- Analysis of the distribution of H II regions in external galaxies. II. Analysis of the spiral structure
García Gómez, C., Athanassoula, E. **276**, 330 (**100**, 431)

High resolution CO observations of NGC 1275

Reuter, H.P., Pohl, M., Lesch, H., Sievers, A.W. **277**, 21

Molecular gas in nearby galaxies. II. The data

Sage, L.J. **277**, 363 (**100**, 537)

A detailed analysis of the extended ionized nebulosity surrounding NGC 4388

Petitjean, P., Durret, F. **277**, 365

The clouds of M 82. I. HCN in the southwest part

Brouillet, N., Schilke, P. **277**, 381

CO(2→1) and ¹³CO(1→0) emission from luminous southern infrared galaxies

Garay, G., Mardones, D., Mirabel, I.F. **277**, 405

CO in the "Black Eye" galaxy NGC 4826

Casoli, F., Gerin, M. **279**, L41

Erratum: (Letter) Large-scale extinction effects in the disk of S0 galaxies

Michard, R., Simien, F. **279**, 335

Dust in spiral galaxies. I

Chini, R., Krügel, E. **279**, 385

The emission spectra of radioweak quasars. I. The far-infrared emission

Niemeyer, M., Biermann, P.L. **279**, 393

IRAS CPC observations of galaxies. I. Catalog and atlas

van Driel, W., de Graauw, T., de Jong, T., Wesselius, P.R. **279**, 681 (**101**, 207)

Interstellar and intergalactic gas in the direction of SN 1993J in M 81

Vladilo G., Centurión, M., de Boer, K.S., King, D.L., Lipman, K., Stegert, J., Unger, S.W., Walton, N.A. **280**, L11

Detection of filaments of ionized gas in NGC 4684

Bettoni, D., Galletta, G., Sage, L.J. **280**, 121

Analysis of the H II region distribution in external galaxies. III. Global properties and the radial distribution

Athanassoula, E., García Gómez, C., Bosma, A. **280**, 345 (**102**, 229)

H α survey of the Small Magellanic Cloud

le Coarer, E., Rosado, M., Georgelin, Y., Viale, A., Goldes, G. **280**, 365

H II regions in spiral galaxies: positions, luminosity function and diameter distribution

Banfi, M., Rampazzo, R., Chincarini, G., Henry, R.B.C. **280**, 373

The distribution of ionized gas in early-type galaxies

Buson, L.M., Sadler, E.M., Zeilinger, W.W., Bertin, G., Bertola, F., Danziger, I.J., Dejonghe, H., Saglia, R.P., de Zeeuw, P.T. **280**, 409

NGC 4414: a flocculent galaxy with a high gas surface density

Braine, J., Combes, F., van Driel, W. **280**, 451

Galaxies: irregular

H₂O masers in nearby irregular galaxies

Becker, R., Henkel, C., Wilson, T.L., Wouterloot, J.G.A. **268**, 483

Results of the ESO-SEST Key Programme: CO in the Magellanic Clouds. II. CO in the SW region of the Small Magellanic Cloud

Rubio, M., Lequeux, J., Boulanger, F., Booth, R.S., Garay, G., de Graauw, T., Israël, F.P., Johansson, L.E.B., Kutner, M.L., Nyman, L.-Å. **271**, 1

Results of the ESO-SEST Key Programme: CO in the Magellanic Clouds. III. Molecular gas in the Small Magellanic Cloud

Rubio, M., Lequeux, J., Boulanger, F. **271**, 9

Powering the starburst in the merging system Mkn 297

Sage, L.J., Loose, H.-H., Salzer, J.J. **273**, 6

Photometric distances to five dwarf galaxies in the vicinity of M 81

Tikhonov, N.A., Karachentsev, I.D. **275**, 39

Results of the ESO-SEST Key Programme on CO in the Magellanic Clouds. I. A survey of CO in the LMC and the SMC

Israel, F.P., Johansson, L.E.B., Lequeux, J., Booth, R.S., Nyman, L.-Å., Crane, P., Rubio, M., de Graauw, T., Kutner, M.L., Gredel, R., Boulanger, F., Garay, G., Westerlund, B.E. **276**, 25

On the evolution of helium, nitrogen and oxygen abundances in dwarf irregular galaxies

Pilyugin, L.S. **277**, 42

Galaxies: jets

Polarization properties at 1.4 GHz of low luminosity radio galaxies

Parma, P., Morganti, R., Capetti, A., Fanti, R., de Ruiter, H.R. **267**, 31

Synchrotron radiation from the jet of 3C 273. II. The radio structure and polarization

Conway, R.G., Garrington, S.T., Perley, R.A., Biretta, J.A. **267**, 347

Mixed shocks: spectral selection of the class of solutions

Lehoucq, R., Roland, J., Pelletier, G. **268**, 93

Structure of the spiral arms of NGC 4258 in H α and at 2000 Å

Courtès, G., Petit, H., Hua, C.T., Martin, P., Blecha, A., Hu-
guenin, D., Golay, M. **268**, 419

Lensing effects of gravitational radiation near celestial sources

Labeyrie, A. **268**, 823

The proton blazar

Mannheim, K. **269**, 67

Polarization variability of extragalactic radio sources at 1435 MHz

Luna, H.G., Martínez, R.E., Combi, J.A., Romero, G.E. **269**, 77

The radio and optical structure of 3C 66B

Jackson, N., Sparks, W.B., Miley, G.K., Macchetto, F. **269**, 128

Self-collimated jets beyond the light cylinder

Appl, S., Camenzind, M. **270**, 71

Investigation of astrophysical filaments and determination of their size

Rosso, F., Pelletier, G. **270**, 416

First 7 mm VLBI observations of the peculiar superluminal radio source 4C 39.25

Alberdi, A., Krichbaum, T.P., Marcaide, J.M., Witzel, A., Graham, D.A., Inoue, M., Morimoto, M., Booth, R.S., Rönnäng, B.O., Colomer, F., Rogers, A.E.E., Zensus, J.A., Readhead, A.C.S., Lawrence, C.R., Vermeulen, R., Bartel, N., Shapiro, I.I., Burke, B.F. **271**, 93

Intraday variability in the BL Lac object 0954+658

Wagner, S.J., Witzel, A., Krichbaum, T.P., Wegner, R., Quirren-
bach, A., Anton, K., Erkens, U., Khanna, R., Zensus, A. **271**, 344

Extragalactic ultra-high energy cosmic rays. I. Contribution from hot spots in FR-II radio galaxies

Rachen, J.P., Biermann, P.L. **272**, 161

Jets from mergers of binary black holes

Basu, D., Valtonen, M.J., Valtonen, H., Mikkola, S. **272**, 417

Extragalactic ultra-high energy cosmic rays. II. Comparison with experimental data

Rachen, J.P., Stanev, T., Biermann, P.L. **273**, 377

First 43 GHz VLBI detection of the compact source Sgr A* in the Galactic Center

Krichbaum, T.P., Zensus, J.A., Witzel, A., Mezger, P.G., Standke, K.J., Schalinski, C.J., Alberdi, A., Marcaide, J.M., Zylka, R., Rogers, A.E.E., Booth, R.S., Rönnäng, B.O., Colomer, F., Bartel, N., Shapiro, I.I. **274**, L37

Synchrotron emission from bent shocked relativistic jets. I. Bent relativistic jets

Gómez, J.L., Alberdi, A., Marcaide, J.M. **274**, 55

Electromagnetic stability of electron-positron beams

Achatz, U., Schlickeiser, R. **274**, 165

The structure of relativistic MHD jets: a solution to the nonlinear Grad-Shafranov equation

Appl, S., Camenzind, M. **274**, 699

3C 138: multi-frequency observations of the suggested "naked-jet" compact steep-spectrum source

Akujor, C.E., Spencer, R.E., Zhang, F.J., Fanti, C., Ludke, E., Garington, S.T. **274**, 752

First 43 GHz VLBI-observations with the 30-m radio telescope at Pico Veleta

Krichbaum, T.P., Witzel, A., Graham, D.A., Standke, K.J., Schwartz, R., Lochner, O., Schalinski, C.J., Greve, A., Steppe, H., Brunswig, W., Butin, G., Hein, H., Navarro, S., Peñalver, J., Grewing, M., Booth, R.S., Colomer, F., Rönnäng, B.O. **275**, 375

Some statistical results for extragalactic radio jets

Fan, J.H., Xie, G.Z., Huang, Z.H. **275**, 688 (**100**, 103)

Magnetized accretion-ejection structures. I. General statements

Ferreira, J., Pelletier, G. **276**, 625

Magnetized accretion-ejection structures. II. Magnetic channeling around compact objects

Ferreira, J., Pelletier, G. **276**, 637

The Galactic Center radio jet

Falcke, H., Mannheim, K., Biermann, P.L. **278**, L1

Recent activity in the optical and radio lightcurves of the blazar 3C 345: indications for a "lighthouse effect" due to jet rotation

Schramm, K.-J., Borgeest, U., Camenzind, M., Wagner, S.J., Bade, N., Dreissigacker, O., Heidt, J., Hoff, W., Kayser, R., Kühl, D., von Linde, J., Linnert, M.D., Pelt, J., Schramm, T., Sillanpää, A., Takalo, L.O., Valtaoja, E., Vigotti, M. **278**, 391

The milliarcsecond structure of the quasar 3C 279

Carrara, E.A., Abraham, Z., Unwin, S.C., Zensus, J.A. **279**, 83

Extragalactic jets driven by Alfvén waves

Gonçalves, D.R., Jatenco-Pereira, V., Opher, R. **279**, 351

A 100 GHz map of 3C 446

Lerner, M.S., Bååth, L.B., Inoue, M., Padin, S., Rogers, A.E.E., Wright, M.C.H., Zensus, A., Backer, D.C., Booth, R.S., Carlstrom, J.E., Emerson, D.T., Hirabayashi, H., Hodges, M.W., Jewell, P., Kobayashi, H., Kus, A.J., Moran, J.M., Morimoto, M., Plambeck, R.L., Rantakyö, F.T., Woody, D. **280**, 117

Detection of filaments of ionized gas in NGC 4684

Bettoni, D., Galletta, G., Sage, L.J. **280**, 121

The sub-arcsecond structure of 4C 39.25

Jackson, N., Browne, I.W.A., Alberdi, A., Marcaide, J.M. **280**, 128

The high-velocity encounter of NGC 4782/4783: comparison of numerical experiments and observations

Madejsky, R., Bien, R. **280**, 383

Galaxies: kinematics and dynamics

Studies of narrow polar rings around E galaxies. I. Observations and model of AM 2020-504

Arnaboldi, M., Capaccioli, M., Cappellaro, E., Held, E.V., Sparke, L. **267**, 21

The nature of the angular momentum of galaxies: the hydrodynamical theory

Chernin, A.D. **267**, 315

N-body equilibrium figures of early-type galaxies. I. Global structures

Udry, S. **268**, 35

Secular evolution of isolated barred galaxies. I. Gravitational coupling between stellar bars and interstellar medium

Friedli, D., Benz, W. **268**, 65

Studies of narrow polar rings around E galaxies. II. The UV spectrum of AM 2020-504

Arnaboldi, M., Capaccioli, M., Barbaro, G., Buson, L., Longo, G. **268**, 103

On the capabilities and limits of smoothed particle hydrodynamics

Steinmetz, M., Müller, E. **268**, 391

Kinematical models of warped disks

Arnaboldi, M., Galletta, G. **268**, 411

Structure of the spiral arms of NGC 4258 in H α and at 2000 Å

Courtès, G., Petit, H., Hua, C.T., Martin, P., Blecha, A., Huguenin, D., Golay, M. **268**, 419

Velocity distributions in spherical elliptical galaxies. II. Measuring line-of-sight stellar velocity distributions

Winsall, M.L., Freeman, K.C. **268**, 443

The stellar dynamics of "box/peanut" galactic bulges. I. NGC 3079

Shaw, M., Wilkinson, A., Carter, D. **268**, 511

The bulge of M 104: stellar content and kinematics

Hes, R., Peletier, R.F. **268**, 539

Distribution and motions of atomic hydrogen in lenticular galaxies.

X. The blue S0 galaxy NGC 5102

van Woerden, H., van Driel, W., Braun, R., Rots, A.H. **269**, 15

Simulations of the evolution of galaxy clusters. I. Dynamics of the galaxies

Schindler, S., Böhringer, H. **269**, 83

Chaotic behaviour in binary galaxies

Stewart, P. **269**, 135

High resolution ¹²CO(2-1) observations of the molecular gas in Centaurus A

Rydbeck, G., Wiklind, T., Cameron, M., Wild, W., Eckart, A., Genzel, R., Rothenmel, H. **270**, L13

Observations and starburst models of NGC 520

Bernlöhr, K. **270**, 20

Computational issues connected with 3D N-body simulations

Pfenniger, D., Friedli, D. **270**, 573

The molecular cloud content of early-type galaxies. IV. A molecular bar in NGC 4691

Wiklind, T., Henkel, C., Sage, L.J. **271**, 71

The Kuzmin-Kutuzov two integral axisymmetric galaxy model revisited

Batsleer, P., Dejonghe, H. **271**, 104

X-ray emission and temperature profiles for optically selected models of elliptical galaxies

Bertin, G., Pignatelli, E., Saglia, R.P. **271**, 381

Bars in early- and late-type galaxies

Combes, F., Elmegreen, B.G. **271**, 391

Energy and phase space mixing for self-gravitating systems of stars

Kandrup, H.E., Mahon, M.E., Smith Jr., H. **271**, 440

Grand design and flocculent spiral structure in computer simulations with star formation and gas heating

Elmegreen, B.G., Thomasson, M. **272**, 37

Distribution and motions of H I in the ringed galaxy NGC 4736

Mulder, P.S., van Driel, W. **272**, 63

Rotation of stars and gas in M 82

McKeith, C.D., Castles, J., Greve, A., Downes, D. **272**, 98

A model of the tidal interaction between M 81 and NGC 3077

Thomasson, M., Donner, K.J. **272**, 153

Angular momentum in binary spiral galaxies

Oosterloo, T. **272**, 389

Isophote twists in the nuclear regions of barred spiral galaxies

Shaw, M.A., Combes, F., Axon, D.J., Wright, G.S. **273**, 31

Ram-pressure accretion of intergalactic gas clouds by galaxies

Sofue, Y., Wakamatsu, K. **273**, 79

Long slit spectroscopy of extended ionized nebulosities around a sample of nearby Seyfert galaxies

Durret, F., Boisson, C., Petitjean, P., Bergeron, J. **273**, 355 (98, 365)

Torus dynamos for galaxies and accretion disks. I. The axisymmetric $\alpha\omega$ -dynamo embedded into vacuum

Deinzer, W., Grosser, H., Schmitt, D. **273**, 405

Deep kinematics and dynamics of edge-on S0 galaxies. I. NGC 3115

Capaccioli, M., Cappellaro, E., Held, E.V., Vietri, M. **274**, 69

Kinematics of a sample of globular clusters in the halo and the mass of M 31

Federici, L., Bònoli, F., Ciotti, L., Fusi Pecci, F., Marano, B., Lipovetsky, V.A., Neizvestny, S.J., Spassova, N. **274**, 87

Gravitational imaging by elliptical galaxies: the effects of dark halos

Breimer, T.G., Sanders, R.H. **274**, 96

CO in Messier 51. I. Molecular spiral structure

García-Burillo, S., Guélin, M., Cernicharo, J. **274**, 123

CO in Messier 51. II. Molecular cloud dynamics

García-Burillo, S., Combes, F., Gerin, M. **274**, 148

The stellar kinematics of galactic disks

Bottema, R. **275**, 16

On the Maxwellian alternative to the galactic dark matter problem

Sivaram, C. **275**, 37

Liouville's equation. V. The full symmetries of r^{-1} -potentials

Dehghani, M.H., Sobouti, Y. **275**, 91

H1 observations of binary spiral galaxies

Oosterloo, T., Shostak, S. **275**, 354 (99, 379)

The merging Seyfert galaxies Mkn 423 and Mkn 739

Rafanelli, P., Marziani, P., Birkle, K., Thiele, U. **275**, 451

The $V-R$ diagram: a diagnostic tool for the dynamical classification of spiral galaxies

Campos-Aguilar, A., Prieto, M., García, C. **276**, 16

High resolution CO observations of NGC 1275

Reuter, H.P., Pohl, M., Lesch, H., Sievers, A.W. **277**, 21

Bars within bars in lenticular and spiral galaxies: a step in secular evolution?

Friedli, D., Martinet, L. **277**, 27

A detailed analysis of the extended ionized nebulosity surrounding NGC 4388

Petitjean, P., Durret, F. **277**, 365

NGC 6951: circumnuclear star formation around a Seyfert nucleus

Boer, B., Schulz, H. **277**, 397

Core sub-structure of elliptical galaxies: the core resolution technique applied to NGC 1399

Stiavelli, M., Møller, P., Zeilinger, W.W. **277**, 421

A photometric study of interacting galaxies. II. Analysis of the results

Reshetnikov, V.P., Hagen-Thorn, V.A., Yakovleva, V.A. **278**, 351

Resolving the kinematical structure within the nuclear starburst of NGC 253

Muñoz-Tuñón, C., Vilchez, J.M., Castañeda, H.O. **278**, 364

A study of the unusual starburst galaxy Markarian 603 (=NGC 1222)

Petrosian, A.R., Burenkov, A.N. **279**, 21

High-resolution rotation curves of NGC 7626: dynamics of a young kinematically peculiar core

Balcells, M., Carter, D. **279**, 376

The stellar dynamics of "box/peanut" galactic bulges. II. NGC 1055

Shaw, M. **280**, 33

Dynamical evolution of dissipative cloud systems

Theis, C., Hensler, G. **280**, 85

Change in angular velocity of perturbed galactic bars

Sundin, M., Donner, K.J., Sundelius, B. **280**, 105

Detection of filaments of ionized gas in NGC 4684

Beitoni, D., Galletta, G., Sage, L.J. **280**, 121

H α survey of the Small Magellanic Cloud

le Coarer, E., Rosado, M., Georgelin, Y., Viale, A., Goldes, G. **280**, 365

The high-velocity encounter of NGC 4782/4783: comparison of numerical experiments and observations

Madejsky, R., Bien, R. **280**, 383

A photometric and kinematic study of the interacting pair NGC 5953/54

Reshetnikov, V.P. **280**, 400

(Galaxies:) Local Group

Globular clusters in the Local Group of galaxies: a statistical approach

Covino, S., Pasinetti Fracassini, L.E. **270**, 83

The Local Group motion towards Virgo and the microwave background

Jerjen, H., Tammann, G.A. **276**, 1

Galaxies: luminosity function, mass function

A dynamical determination of the density of galactic halos formed from seeded dark matter

Zhang, J.L., Chau, W.Y., Cheng, K.S., Chan, K.K. **273**, 95

(Galaxies:) Magellanic Clouds

Indications for common origin and gravitational interaction in three binary LMC clusters

Kontizas, E., Kontizas, M., Michalitsianos, A. **267**, 59

Synthetic AGB evolution. I. A new model

Groenewegen, M.A.T., de Jong, T. **267**, 410

Spectral and temporal properties of the X-ray pulsar SMC X-1 at hard X-rays

Kunz, M., Gruber, D.E., Kendziorra, E., Kretschmar, P., Maisack, M., Mony, B., Stauber, R., Döbereiner, S., Englhauser, J., Pietsch, W., Reppin, C., Trümper, J., Efremov, V.V., Kaniovsky, A.S., Kuznetsov, A., Sunyaev, R. **268**, 116

Star formation history of the young association NGC 1948 at the edge of the supergiant shell LMC 4

Vallenari, A., Bomans, D.J., de Boer, K.S. **268**, 137

Radial distribution of metallicity in the LMC cluster systems

Kontizas, M., Kontizas, E., Michalitsianos, A.G. **269**, 107

Discovery of a variable super soft X-ray source in the Large Magellanic Cloud during the ROSAT All-Sky Survey

Schaeidt, S., Hasinger, G., Trümper, J. **270**, L9

Results of the ESO-SEST Key Programme: CO in the Magellanic Clouds. II. CO in the SW region of the Small Magellanic Cloud

Rubio, M., Lequeux, J., Boulanger, F., Booth, R.S., Garay, G., de Graauw, T., Israël, F.P., Johansson, L.E.B., Kutner, M.L., Nyman, L.-Å. **271**, 1

Results of the ESO-SEST Key Programme: CO in the Magellanic Clouds. III. Molecular gas in the Small Magellanic Cloud

Rubio, M., Lequeux, J., Boulanger, F. **271**, 9

A far UV investigation of luminous hot stars in the SMC cluster NGC 330

Caloi, V., Cassatella, A., Castellani, V., Walker, A. **271**, 109

A radio continuum study of the Magellanic Clouds. III. The magnetic field in the LMC

Klein, U., Haynes, R.F., Wielebinski, R., Meinert, D. **271**, 402

Type I planetary nebulae in the Large Magellanic Cloud: oxygen, sulphur, and argon abundances as tracers of chemical enrichment

de Freitas Pacheco, J.A., Barbuy, B., Costa, R.D.D., Idiart, T.E.P. **271**, 429

Analysis of NGC 1948 F6:4, a star in a young association of the LMC

Spite, F., Barbuy, B., Spite, M. **272**, 116

- Carbon stars in the Small Magellanic Cloud. II. Catalogue of 1707 objects with identifications and spectrophotometry
Rebeiro, E., Azzopardi, M., Westerlund, B.E. **272**, 751 (**97**, 603)
- Spatial distribution of stellar mass in the Large Magellanic Cloud star clusters
Subramaniam, A., Sagar, R., Bhatt, H.C. **273**, 100
- Interstellar Ca II and Na I in the SN1987A field. II. LMC gas
Vladilo, G., Molaro, P., Monai, S., D'Odorico, S., Ferlet, R., Vidal-Madjar, A., Dennefeld, M. **274**, 37
- Colour evolution models and the distribution of LMC clusters in the integrated *UBV* plane
Girardi, L., Bica, E. **274**, 279
- Interstellar Ca II and Na I in the SN 1987A field. I. Foreground and intermediate velocity gas
Molaro, P., Vladilo, G., Monai, S., D'Odorico, S., Ferlet, R., Vidal-Madjar, A., Dennefeld, M. **274**, 505
- Molecular clouds in the 30 Doradus halo
Garay, G., Rubio, M., Ramírez, S., Johansson, L.E.B., Thaddeus, P. **274**, 743
- Grids of stellar models. II. From 0.8 to 120 M_{\odot} at $Z=0.008$
Schaerer, D., Meynet, G., Maeder, A., Schaller, G. **274**, 1012 (**98**, 523)
- N 63A: a supernova remnant within an H II region
Dickel, J.R., Milne, D.K., Junkes, N., Klein, U. **275**, 265
- UBV* photometry of galactic foreground and LMC member stars. I. Galactic foreground stars
Gochermann, J., Grothues, H.-G., Oestreicher, M.O., Berghöfer, T., Schmidt-Kaler, T. **275**, 356 (**99**, 591)
- Results of the ESO-SEST Key Programme on CO in the Magellanic Clouds. I. A survey of CO in the LMC and the SMC
Israel, F.P., Johansson, L.E.B., Lequeux, J., Booth, R.S., Nyman, L.-Å., Crane, P., Rubio, M., de Graauw, T., Kutner, M.L., Gredel, R., Boulanger, F., Garay, G., Westerlund, B.E. **276**, 25
- The chemical compositions of four B-type stars in the Small Magellanic Cloud
Rollleston, W.R.J., Dufton, P.L., Fitzsimmons, A., Howarth, I.D., Irwin, M.J. **277**, 10
- HDE 269828: a reddened massive star cluster
Heydari-Malayeri, M., Grebel, E.K., Melnick, J., Jorda, L. **278**, 11
- Optical/UV counterpart of the supersoft transient X-ray source RX J0513.9-6951 in the Large Magellanic Cloud
Pakull, M.W., Motch, C., Bianchi, L., Thomas, H.-C., Guibert, J., Beaulieu, J.P., Grison, P., Schaeidt, S. **278**, L39
- Magnetic fields and the cosmic ray *e/p* ratio. Clues from gamma-ray observations of the Magellanic Clouds
Pohl, M. **279**, L17
- The asymmetry parameter *M-m* of the light curves of Cepheids in the Galaxy and Magellanic Clouds
Antonello, E. **279**, 125
- Abundances of non-type I planetary nebulae in the LMC
de Freitas Pacheco, J.A., Costa, R.D.D., Maciel, W.J. **279**, 567
- A new catalogue of H α emission-line stars and small nebulae in the Small Magellanic Cloud
Meyssonnier, N., Azzopardi, M. **280**, 349 (**102**, 451)
- H α survey of the Small Magellanic Cloud
le Coarer, E., Rosado, M., Georgelin, Y., Viale, A., Goldes, G. **280**, 365
- The OB association LH 90 in the LMC: its age structure and Wolf-Rayet stars
Testor, G., Schild, H., Lortet, M.C. **280**, 426
- R 40: the first luminous blue variable in the Small Magellanic Cloud
Szeifert, T., Stahl, O., Wolf, B., Zickgraf, F.-J., Bouchet, P., Klare, G. **280**, 508
- Galaxies: magnetic fields**
- Galactic dynamics and magnetic fields. I. Superbubbles in galactic central regions
Lesch, H., Harnett, J. **268**, 58
- Galactic winds. II. Rôle of the disk-halo interface in cosmic ray driven galactic winds
Breitschwerdt, D., McKenzie, J.F., Völk, H.J. **269**, 54
- Dynamo-driven accretion in galaxies
Rüdiger, G., Elstner, D., Schultz, M. **270**, 53
- On the predictive power of the minimum energy condition. I. Isotropic steady-state configurations
Pohl, M. **270**, 91
- Vertical magnetic fields above the discs of spiral galaxies
Brandenburg, A., Donner, K.J., Moss, D., Shukurov, A., Sokoloff, D.D., Tuominen, I. **271**, 36
- A radio continuum study of the Magellanic Clouds. III. The magnetic field in the LMC
Klein, U., Haynes, R.F., Wielebinski, R., Meinert, D. **271**, 402
- Ionized gas and intrinsic magnetic fields in the spiral galaxy NGC 6946
Ehle, M., Beck, R. **273**, 45
- Torus dynamos for galaxies and accretion disks. I. The axisymmetric α -dynamo embedded into vacuum
Deinzer, W., Grosser, H., Schmitt, D. **273**, 405
- Magnetic fields and thermal gas in M 83
Neininger, N., Beck, R., Sukumar, S., Allen, R.J. **274**, 687
- Galaxies: nuclei**
- No molecular gas in M 87: just a monster?
Braine, J., Wiklind, T. **267**, L47
- Multiple-peaked line profiles from relativistic disks at high inclination angles
Matt, G., Perola, G.C., Stella, L. **267**, 643
- A CO(1-0) and CO(2-1) survey of nearby spiral galaxies. III. More H $_2$ gas in perturbed galaxies?
Braine, J., Combes, F. **269**, 7
- A study of southern extreme IRAS galaxies. IV. Summary and interpretation of the observations
van den Broek, A.C. **269**, 96
- Structure and spectra of accretion disks in the innermost parts of active galaxies
Störzer, H. **271**, 25
- Optical microvariability and radio quiet QSOs
Gopal-Krishna, Wita, P.J., Altieri, B. **271**, 89
- NGC 5548: a perfect laboratory for testing AGN models?
Rokaki, E., Collin-Souffrin, S., Magnan, C. **272**, 8
- Image generation in Kerr geometry. I. Analytical investigations on the stationary emitter-observer problem
Viergutz, S.U. **272**, 355
- The Seyfert galaxy NGC 4151: peak activity on the decline?
Christopoulou, P.-E., Goudis, C.D. **272**, 407
- Delay mapping of the scattering medium in active galactic nuclei
Giannuzzo, E., Salvati, M. **272**, 411
- Multi-wavelength studies of active galactic nuclei
Courvoisier, T.J.-L. **272**, 730 (**97**, 93)
- Supernova-like mechanism for cosmic-ray origin in AGN
Dokuchaev, V.I., Karakula, S., Tkaczyk, W. **272**, 731 (**97**, 109)
- Gamma-rays from point sources and a universal energy spectrum
Tomozawa, Y. **272**, 731 (**97**, 117)
- Compact subarcsec structures of the double nucleus of NGC 6240 revealed with HST

- Barbieri, C., Rafanelli, P., Schulz, H., Albrecht, R., Blades, J.C., Boksenberg, A., Crane, P., Deharveng, J.M., Disney, M.J., Jakobsen, P., Kamperman, T.M., King, I.R., Macchetto, F., Mackay, C.D., Paresce, F., Weigelt, G., Baxter, D., Greenfield, P., Jedrzejewski, R., Nota, A., Sparks, W.B. **273**, 1
- Ram-pressure accretion of intergalactic gas clouds by galaxies
Sofue, Y., Wakamatsu, K. **273**, 79
- Long slit spectroscopy of extended ionized nebulosities around a sample of nearby Seyfert galaxies
Durret, F., Boisson, C., Petitjean, P., Bergeron, J. **273**, 355 (**98**, 365)
- X-ray spectral variability of the Seyfert galaxy NGC 4593
Ghosh, K.K., Soundararajaperumal, S. **273**, 397
- X-ray and gamma-ray emission from active galactic nuclei
Cheng, K.S., Yu, K.N., Ding, K.Y. **275**, 53
- Effects of interactions on the nuclear near-infrared properties of spiral galaxies
Giuricin, G., Biviano, A., Girardi, M., Madirossian, F., Mezzetti, M. **275**, 390
- Star formation in galactic nuclei
Krügel, E., Tutukov, A.V. **275**, 416
- Magnetized accretion-ejection structures. I. General statements
Ferreira, J., Pelletier, G. **276**, 625
- Magnetized accretion-ejection structures. II. Magnetic channeling around compact objects
Ferreira, J., Pelletier, G. **276**, 637
- Bars within bars in lenticular and spiral galaxies: a step in secular evolution?
Friedli, D., Martinet, L. **277**, 27
- A detailed analysis of the extended ionized nebulosity surrounding NGC 4388
Petitjean, P., Durret, F. **277**, 365
- The clouds of M 82. I. HCN in the southwest part
Brouillet, N., Schilke, P. **277**, 381
- NGC 6951: circumnuclear star formation around a Seyfert nucleus
Boer, B., Schulz, H. **277**, 397
- Extinction and the wavelength-dependent positions of the nuclei of NGC 6240
Schulz, H., Fried, J.W., Röser, S., Keel, W.C. **277**, 416
- Core sub-structure of elliptical galaxies: the core resolution technique applied to NGC 1399
Stiavelli, M., Möller, P., Zeilinger, W.W. **277**, 421
- The Galactic Center radio jet
Falcke, H., Mannheim, K., Biermann, P.L. **278**, L1
- The evidence for anisotropy of the ionizing continuum of NGC 4151
Schulz, H., Komossa, S. **278**, 29
- Resolving the kinematical structure within the nuclear starburst of NGC 253
Muñoz-Tuñón, C., Vilchez, J.M., Castañeda, H.O. **278**, 364
- Galaxies: peculiar**
- Quantitative morphology of E-S0 galaxies. I. Bulge, lens, disk and envelope in edge-on systems
Michard, R., Marchal, J. **273**, 351 (**98**, 29)
- Bars within bars in lenticular and spiral galaxies: a step in secular evolution?
Friedli, D., Martinet, L. **277**, 27
- Galaxies: photometry**
- Determination of absorption-free magnitudes for faint galaxies
Cunow, B. **268**, 491
- The stellar dynamics of "box/peanut" galactic bulges. I. NGC 3079
Shaw, M., Wilkinson, A., Carter, D. **268**, 511
- On the transparency of the inner regions of early-type spiral galaxies
Simien, F., Morenas, V., Valentijn, E.A. **269**, 111
- The stellar content of elliptical galaxies: optical and infrared colour profiles of M 32 and NGC 205
Peletier, R.F. **271**, 51
- Optical microvariability and radio quiet QSOs
Gopal-Krishna, Wiita, P.J., Altieri, B. **271**, 89
- New globular cluster candidates in the inner regions of M 31 and the projected density profile of the cluster system
Battistini, P.L., Biondi, F., Casavecchia, M., Ciotti, L., Federici, L., Fusi Pecci, F. **272**, 77
- The Seyfert galaxy NGC 4151: peak activity on the decline?
Christopoulou, P.-E., Goudis, C.D. **272**, 407
- Photographic surface photometry of the Milky Way. VII. High-resolution B surface photometry of the southern Milky Way
Kimeswenger, S., Hoffmann, B., Schlosser, W., Schmidt-Kaler, T. **272**, 749 (**97**, 517)
- Photometric CCD sequences in 13 southern Abell clusters
Cunow, B. **272**, 750 (**97**, 541)
- The southern barred spiral NGC 2442
Sérsic, J.L., Donzelli, C. **273**, 350 (**98**, 21)
- Photometric properties of some AGNs
Kalinkov, M., Kuneva, I., Tsvetanov, Z., Strigachev, A. **273**, 352 (**98**, 165)
- Low-luminosity early-type galaxies. I. Photometry and morphology
Prugniel, P., Bica, E., Klotz, A., Alloin, D. **273**, 353 (**98**, 229)
- Dwarf galaxies in the Virgo cluster. II. Photometric techniques and basic data
Binggeli, B., Cameron, L.M. **273**, 355 (**98**, 297)
- Large-scale extinction effects in the disk of S0 galaxies
Michard, R., Simien, F. **274**, L25
- Photometric distances to five dwarf galaxies in the vicinity of M 81
Tikhonov, N.A., Karachentsev, I.D. **275**, 39
- A photometric study of interacting galaxies. I. Observations
Reshetnikov, V.P., Hagen-Thorn, V.A., Yakovleva, V.A. **275**, 353 (**99**, 257)
- Effects of interactions on the nuclear near-infrared properties of spiral galaxies
Giuricin, G., Biviano, A., Girardi, M., Madirossian, F., Mezzetti, M. **275**, 390
- Statistical properties of stellar populations and surface-brightness fluctuations in galaxies
Buzzoni, A. **275**, 433
- Photometric distances to the nearby galaxies IC 10, IC 342, and UGC 86, visible through the Milky Way
Karachentsev, I.D., Tikhonov, N.A. **276**, 327 (**100**, 227)
- Infrared and optical photometry of galaxies in four clusters and of a sample of early-type galaxies
Boisson, C., Durret, F., Balkowski, C., Proust, D. **277**, 363 (**100**, 583)
- Core sub-structure of elliptical galaxies: the core resolution technique applied to NGC 1399
Stiavelli, M., Möller, P., Zeilinger, W.W. **277**, 421
- Do elliptical galaxies have $r^{1/4}$ brightness profiles?
Burkert, A. **278**, 23
- A photometric study of interacting galaxies. II. Analysis of the results
Reshetnikov, V.P., Hagen-Thorn, V.A., Yakovleva, V.A. **278**, 351
- Erratum: (Letter) Large-scale extinction effects in the disk of S0 galaxies
Michard, R., Simien, F. **279**, 335
- The stellar dynamics of "box/peanut" galactic bulges. II. NGC 1055
Shaw, M. **280**, 33

Photometric CCD sequences for calibration of the ESO(R) survey

Cunow, B., Wargau, W.F. **280**, 346 (**102**, 331)

A photometric and kinematic study of the interacting pair NGC 5953/54

Reshetnikov, V.P. **280**, 400

(Galaxies:) quasars: absorption lines

Coordinated UV-optical observations of quasars: the evolution of the Lyman absorption

Cristiani, S., Giallongo, E., Buson, L.M., Gouiffes, C., La Franca, F. **268**, 86

Emission from a damped Ly α absorber at $z=2.81$

Møller, P., Warren, S.J. **270**, 43

The absorption spectrum of Q 2116-358

Wampler, E.J., Bergeron, J., Petitjean, P. **273**, 15

Constraints for the shape of the UV background at $z=2$

Vogel, S., Reimers, D. **274**, L5

A strong dependence of the narrow CIV absorption line density on the quasar emission redshift

Borgeest, U., Mehlert, D. **275**, L21

He I absorption lines in high-redshift Lyman limit systems of the QSO HS 1700+6416

Reimers, D., Vogel, S. **276**, L13

Does the Lyman Limit System (LLS) evolve strongly?

Fan, X.H., Chen, J.-S. **277**, L5

The new double QSO HE 1104-1805: Gravitational lens with microlensing or binary quasar?

Wisotzki, L., Köhler, T., Kayser, R., Reimers, D. **278**, L15

A semi-analytic method for calculating D_A evolution

Zuo, L. **278**, 343

A deep imaging survey of fields around quasars with $z < 1$ Mg II absorption systems

Le Brun, V., Bergeron, J., Boissé, P., Christian, C. **279**, 33

(Galaxies:) quasars: emission lines

Erratum: Spectral monitoring of powerful radio sources

Hooimeyer, J.R.A., Miley, G.K., de Waard, G.J., Schilizzi, R.T. **268**, 831

Spectroscopy of 1 Jy and S5 radio source identifications. II

Stickel, M., Kühr, H., Fried, J.W. **272**, 749 (**97**, 483)

Spectroscopic observations of radio source identifications from the 1 Jy, S4 and S5 surveys. III

Stickel, M., Kühr, H. **276**, 330 (**100**, 395)

Optical spectroscopy of 1 Jy, S4 and S5 radio sources. IV

Stickel, M., Kühr, H. **279**, 676 (**101**, 521)

(Galaxies:) quasars: general

The contribution of quasars to the cosmic X-ray background

Zhou, Y.Y., Hu, Y.D., Yu, K.N., Young, E.C.M. **267**, 11

Linear size evolution of extended quasars

Chyży, K.T., Ziġba, S. **267**, L27

An imaging study of the environments of radio-selected BL Lac objects

Fried, J.W., Stickel, M., Kühr, H. **268**, 53

Coordinated UV-optical observations of quasars: the evolution of the Lyman absorption

Cristiani, S., Giallongo, E., Buson, L.M., Gouiffes, C., La Franca, F. **268**, 86

Moving microlensing caustics

Schramm, T., Kayser, R., Chang, K., Nieser, L., Refsdal, S. **268**, 350

Microlensing predictions for the Einstein Cross 2237+0305

Witt, H.J., Kayser, R., Refsdal, S. **268**, 501

Erratum: Spectral monitoring of powerful radio sources

Hooimeyer, J.R.A., Miley, G.K., de Waard, G.J., Schilizzi, R.T. **268**, 831

Angular source size measurements and interstellar scattering at 103 MHz using interplanetary scintillation

Janardhan, P., Alurkar, S.K. **269**, 119

Self-collimated jets beyond the light cylinder

Appl, S., Camenzind, M. **270**, 71

The superluminal character of the compact steep spectrum quasar 3C 216

Venturi, T., Pearson, T.J., Barthel, P.D., Herbig, T. **271**, 65

Optical microvariability and radio quiet QSOs

Gopal-Krishna, Wiita, P.J., Altieri, B. **271**, 89

A sample of gigahertz-peaked-spectrum radio sources: List 3

Gopal-Krishna, Spoelstra, T.A.T. **271**, 101

Erratum: (Letter) Q 1208+1011: the most distant multiply imaged quasar, or a binary?

Magain, P., Surdej, J., Vanderriest, C., Pirene, B., Hutsemékers, D. **272**, 383

Multi-wavelength studies of active galactic nuclei

Courvoisier, T.J.-L. **272**, 730 (**97**, 93)

Identification of the sigma source near 3C 273: a new class of AGN?

Grindlay, J.E. **272**, 731 (**97**, 113)

Radio spectra of quasars. III

Quiniento, Z.M., Cersosimo, J.C. **272**, 748 (**97**, 435)

Spectroscopy of 1 Jy and S5 radio source identifications. II

Stickel, M., Kühr, H., Fried, J.W. **272**, 749 (**97**, 483)

The radio state of extragalactic γ -ray sources detected by CGRO

Reich, W., Steppe, H., Schlickeiser, R., Reich, P., Pohl, M., Reuter, H.P., Kanbach, G., Schönfelder, V. **273**, 65

High-redshift quasar Q1745+624 observed in the ROSAT All-Sky Survey

Fink, H.H., Briel, U.G. **274**, L45

The soft X-ray spectra of quasars and X-ray beaming models

Jackson, N., Browne, I.W.A., Warwick, R.S. **274**, 79

The optical and radio spectrum of the radio-selected high redshift quasar S4 1745+624

Stickel, M. **275**, 49

X-ray and gamma-ray emission from active galactic nuclei

Cheng, K.S., Yu, K.N., Ding, K.Y. **275**, 53

First 43 GHz VLBI-observations with the 30-m radio telescope at Pico Veleta

Krichbaum, T.P., Witzel, A., Graham, D.A., Standke, K.J., Schwartz, R., Lochner, O., Schalinski, C.J., Greve, A., Steppe, H., Brunswig, W., Butin, G., Hein, H., Navarro, S., Peñalver, J., Grewing, M., Booth, R.S., Colomer, F., Rönnäng, B.O. **275**, 375

High-frequency variability of extragalactic radio sources. II. A statistical multi-frequency model of variability

Magdziarz, P., Machalski, J. **275**, 405

Some statistical results for extragalactic radio jets

Fan, J.H., Xie, G.Z., Huang, Z.H. **275**, 688 (**100**, 103)

Spectroscopic observations of radio source identifications from the 1 Jy, S4 and S5 surveys. III

Stickel, M., Kühr, H. **276**, 330 (**100**, 395)

Crossing the Lyman valley: how many UV-bright high redshift quasars are there?

Picard, A., Jakobsen, P. **276**, 331

Gravitational microlensing variability caused by small masses

Refsdal, S., Stabell, R. **278**, L5

The relation between BL Lacertae objects and OVV quasars, and the unified model of BL Lacertae objects, FR-I and FR-II (G) radio galaxies

Xie, G.Z., Zhang, Y.H., Fan, J.H., Liu, F.K. **278**, 6

Upper bounds on the cosmological density of compact objects with sub-solar masses from the variability of QSOs

Schneider, P. **279**, 1

The emission spectra of radioweak quasars. I. The far-infrared emission

Niemeyer, M., Biermann, P.L. **279**, 393

Optical spectroscopy of 1 Jy, S4 and S5 radio sources. IV

Stickel, M., Kühr, H. **279**, 676 (**101**, 521)

Deep optical identifications of compact radio sources selected from the GB/GB2 sample

Machalski, J., Magdziarz, P. **280**, 346 (**102**, 315)

Optical counterpart of galactic plane variable radio sources

Paredes, J.M., Martí, J., Jordi, C., Trullols, E., Peracaula, M. **280**, 347 (**102**, 381)

Millimeter continuum measurements of extragalactic radio sources (III)

Steppe, H., Paubert, G., Sievers, A., Reuter, H.P., Greve, A., Liechti, S., Le Floch, B., Brunswig, W., Menéndez, C., Sanchez, S. **280**, 350 (**102**, 611)

Near-infrared and optical imaging of Q 2345+007: the largest gravitationally lensed QSO system?

Gopal-Krishna, Yates, M., Wiita, P.J., Smette, A., Pati, A., Altieri, B. **280**, 360

Selective gravitational microlensing and line profile variations in the BAL quasar H 1413+117

Hutsemékers, D. **280**, 435

Quasar – host galaxy detection using the cross-correlation technique

Boyce, P.J., Phillipps, S., Davies, J.I. **280**, 694

(Galaxies:) quasars: individual: . . .

B 1422+231

Optical imaging of the gravitational lens system B 1422+231

Remy, M., Surdej, J., Smette, A., Claeskens, J.-F. **278**, L19

H 1413+117

Selective gravitational microlensing and line profile variations in the BAL quasar H 1413+117

Hutsemékers, D. **280**, 435

HE 1104-1805

The new double QSO HE 1104–1805: Gravitational lens with microlensing or binary quasar?

Wisotzki, L., Köhler, T., Kayser, R., Reimers, D. **278**, L15

HS 1700+6416

Constraints for the shape of the UV background at $z=2$

Vogel, S., Reimers, D. **274**, L5

He I absorption lines in high-redshift Lyman limit systems of the QSO

HS 1700+6416

Reimers, D., Vogel, S. **276**, L13

Mkn 877

The soft X-ray spectra of quasars and X-ray beaming models

Jackson, N., Browne, I.W.A., Warwick, R.S. **274**, 79

PKS 0403-132

The soft X-ray spectra of quasars and X-ray beaming models

Jackson, N., Browne, I.W.A., Warwick, R.S. **274**, 79

PKS 0438-436

High-redshift quasar Q1745+624 observed in the ROSAT All-Sky Survey

Fink, H.H., Briel, U.G. **274**, L45

PKS 0528-250

Emission from a damped Ly α absorber at $z=2.81$

Møller, P., Warren, S.J. **270**, 43

Q 0530-379

Optical microvariability and radio quiet QSOs

Gopal-Krishna, Wiita, P.J., Altieri, B. **271**, 89

Q 0540-389

Optical microvariability and radio quiet QSOs

Gopal-Krishna, Wiita, P.J., Altieri, B. **271**, 89

Q 1208+1011

Erratum: (Letter) Q 1208+1011: the most distant multiply imaged quasar, or a binary?

Magain, P., Surdej, J., Vandierriest, C., Pirene, B., Hutsemékers, D. **272**, 383

Q 1745+624

High-redshift quasar Q1745+624 observed in the ROSAT All-Sky Survey

Fink, H.H., Briel, U.G. **274**, L45

Q 2116-358

The absorption spectrum of Q 2116–358

Wampler, E.J., Bergeron, J., Petitjean, P. **273**, 15

Q 2237+0305

Microlensing predictions for the Einstein Cross 2237+0305

Witt, H.J., Kayser, R., Refsdal, S. **268**, 501

Gravitational microlensing variability caused by small masses

Refsdal, S., Stabell, R. **278**, L5

Q 2345+007

Detection of weak lensing by a massive dark halo in Q 2345+007

Bonnet, H., Fort, B., Kneib, J.-P., Mellier, Y., Soucail, G. **280**, L7

Near-infrared and optical imaging of Q 2345+007: the largest gravitationally lensed QSO system?

Gopal-Krishna, Yates, M., Wiita, P.J., Smette, A., Pati, A., Altieri, B. **280**, 360

S4 1745+624

The optical and radio spectrum of the radio-selected high redshift quasar S4 1745+624

Stickel, M. **275**, 49

1E 1227+0224

Identification of the sigma source near 3C 273: a new class of AGN?

Grindlay, J.E. **272**, 731 (**97**, 113)

3C 110

The soft X-ray spectra of quasars and X-ray beaming models

Jackson, N., Browne, I.W.A., Warwick, R.S. **274**, 79

3C 138

3C 138: multi-frequency observations of the suggested "naked-jet" compact steep-spectrum source

Akujor, C.E., Spencer, R.E., Zhang, F.J., Fanti, C., Ludke, E., Garrington, S.T. **274**, 752

3C 216

The superluminal character of the compact steep spectrum quasar 3C 216

Venturi, T., Pearson, T.J., Barthel, P.D., Herbig, T. **271**, 65

3C 273

Synchrotron radiation from the jet of 3C 273. II. The radio structure and polarization

Conway, R.G., Garrington, S.T., Perley, R.A., Biretta, J.A. **267**, 347

SIGMA observations of extragalactic sources

Bassani, L., Jourdain, E., Roques, J.P., Mandrou, P., Ballet, J., Cordier, B., Lebrun, F., Paul, J., Finogenov, A., Churazov, E., Gilfanov, M., Sunyaev, R., Dyachkov, A., Khavenson, N., Novikov, B., Kuleshova, N. **272**, 729 (97, 89)

Multi-wavelength studies of active galactic nuclei

Courvoisier, T.J.-L. **272**, 730 (97, 93)

COMPTEL detections of the quasars 3C 273 and 3C 279

Hermesen, W., Aarts, H.J.M., Bennett, K., Bloemen, H., de Boer, H., Collmar, W., Connors, A., Diehl, R., van Dijk, R., den Herder, J.W., Kuiper, L., Lichti, G.G., Lockwood, J.A., Macri, J., McConnell, M., Morris, D., Ryan, J.M., Schönfelder, V., Simpson, G., Steinle, H., Strong, A.W., Swanenburg, B.N., de Vries, C., Webber, W.R., Williams, W., Winkler, C. **272**, 730 (97, 97)

EGRET observations of 3C 273

von Montigny, C., Bertsch, D.L., Fichtel, C.E., Hartman, R.C., Hunter, S.D., Kanbach, G., Kniffen, D.A., Kwok, P.W., Lin, Y.C., Mattox, J.R., Mayer-Hasselwander, H.A., Michelson, P.F., Nolan, P.L., Pinkau, K., Rothermel, H., Schneid, E., Sommer, M., Sreekumar, P., Thompson, D.J. **272**, 730 (97, 101)

Identification of the sigma source near 3C 273: a new class of AGN? Grindlay, J.E. **272**, 731 (97, 113)

X-ray and gamma-ray emission from active galactic nuclei

Cheng, K.S., Yu, K.N., Ding, K.Y. **275**, 53

3C 279

An overview of first results from COMPTEL

Schönfelder, V., Aarts, H.J.M., Bennett, K., Bloemen, H., de Boer, H., Busetta, M., Collmar, W., Connors, A., Diehl, R., den Herder, J.W., Hermesen, W., Kuiper, L., Lichti, G.G., Lockwood, J., Macri, J., McConnell, M., Morris, D., Much, R., Ryan, J., Simpson, G., Stacy, J.G., Steinle, H., Strong, A.W., Swanenburg, B.N., Taylor, V., Varendorff, M., de Vries, C., Webber, W., Winkler, C. **272**, 725 (97, 27)

SIGMA observations of extragalactic sources

Bassani, L., Jourdain, E., Roques, J.P., Mandrou, P., Ballet, J., Cordier, B., Lebrun, F., Paul, J., Finogenov, A., Churazov, E., Gilfanov, M., Sunyaev, R., Dyachkov, A., Khavenson, N., Novikov, B., Kuleshova, N. **272**, 729 (97, 89)

COMPTEL detections of the quasars 3C 273 and 3C 279

Hermesen, W., Aarts, H.J.M., Bennett, K., Bloemen, H., de Boer, H., Collmar, W., Connors, A., Diehl, R., van Dijk, R., den Herder, J.W., Kuiper, L., Lichti, G.G., Lockwood, J.A., Macri, J., McConnell, M., Morris, D., Ryan, J.M., Schönfelder, V., Simpson, G., Steinle, H., Strong, A.W., Swanenburg, B.N., de Vries, C., Webber, W.R., Williams, W., Winkler, C. **272**, 730 (97, 97)

X-ray and gamma-ray emission from active galactic nuclei

Cheng, K.S., Yu, K.N., Ding, K.Y. **275**, 53

The milliarcsecond structure of the quasar 3C 279

Carrara, E.A., Abraham, Z., Unwin, S.C., Zensus, J.A. **279**, 83

3C 334

The soft X-ray spectra of quasars and X-ray beaming models

Jackson, N., Browne, I.W.A., Warwick, R.S. **274**, 79

3C 446

A 100 GHz map of 3C 446

Lerner, M.S., Bååth, L.B., Inoue, M., Padin, S., Rogers, A.E.E., Wright, M.C.H., Zensus, A., Backer, D.C., Booth, R.S., Carlstrom, J.E., Emerson, D.T., Hirabayashi, H., Hodges, M.W., Jewell, P., Kobayashi, H., Kus, A.J., Moran, J.M., Morimoto, M., Plambeck, R.L., Rantakyrö, F.T., Woody, D. **280**, 117

4C 39.25

First 7 mm VLBI observations of the peculiar superluminal radio source 4C 39.25

Alberdi, A., Krichbaum, T.P., Marcaide, J.M., Witzel, A., Graham, D.A., Inoue, M., Morimoto, M., Booth, R.S., Rönnäng, B.O., Colomer, F., Rogers, A.E.E., Zensus, J.A., Readhead, A.C.S., Lawrence, C.R., Vermeulen, R., Bartel, N., Shapiro, I.I., Burke, B.F. **271**, 93

The sub-arcsecond structure of 4C 39.25

Jackson, N., Browne, I.W.A., Alberdi, A., Marcaide, J.M. **280**, 128

4C 71.05 (0836+710)

A rapid optical flare in the distant γ -ray source 0836+710

von Linde, J., Borgeest, U., Schramm, K.-J., Graser, U., Heidt, J., Hopp, U., Meisenheimer, K., Nieser, L., Steinle, H., Wagner, S. **267**, L23

Galaxies: Seyfert

Erratum: Spectral monitoring of powerful radio sources

Hooimeyer, J.R.A., Miley, G.K., de Waard, G.J., Schilizzi, R.T. **268**, 831

Spectroscopic monitoring of active galactic nuclei. II. The Seyfert-1 galaxy NGC 3516

Wanders, I., van Groningen, E., Alloin, D., Aretxaga, I., Axon, D., de Bruyn, A.G., Clavel, J., Dietrich, M., Goad, M.R., Gondhalekar, P., Horne, K., Jackson, N., Kollatschny, W., Laurikainen, E., Lawrence, A., Masegosa, J., O'Brien, P.T., del Olmo, A., Penston, M.V., Perea, J., Pérez, E., Pérez-Fournon, I., Perry, J.J., Robinson, A., Rodriguez Espinosa, J.M., Stirpe, G.M., Tadhunter, C., Terlevich, R., Unger, S., Wagner, S.J., Williams, R. **269**, 39

A study of southern extreme IRAS galaxies. IV. Summary and interpretation of the observations

van den Broek, A.C. **269**, 96

Variability of the Seyfert galaxy Mkn 766 in the ROSAT All Sky Survey

Molendi, S., Maccacaro, T., Schaeidt, S. **271**, 18

NGC 5548: a perfect laboratory for testing AGN models?

Rokaki, E., Collin-Souffrin, S., Magnan, C. **272**, 8

An analysis of the spectra of 3 Seyfert-1 galaxies with strong Ca II emission

van Groningen, E. **272**, 25

Similarity of the variability patterns in the Exosat and Ginga folded light curves of the Seyfert galaxy NGC 6814

Abramowicz, M.A., Bao, G., Karas, V., Lanza, A. **272**, 400

- The Seyfert galaxy NGC 4151: peak activity on the decline?
Christopoulou, P.-E., Goudis, C.D. **272**, 407
- Delay mapping of the scattering medium in active galactic nuclei
Giannuzzo, E., Salvati, M. **272**, 411
- Emission-line galaxies in the Hamburg Quasar Survey
Vogel, S., Engels, D., Hagen, H.-J., Groote, D., Wisotzki, L., Cordis, L., Reimers, D. **273**, 353 (**98**, 193)
- Long slit spectroscopy of extended ionized nebulosities around a sample of nearby Seyfert galaxies
Durret, F., Boisson, C., Petitjean, P., Bergeron, J. **273**, 355 (**98**, 365)
- X-ray spectral variability of the Seyfert galaxy NGC 4593
Ghosh, K.K., Soundararajaperumal, S. **273**, 397
- The ultraviolet to soft X-ray bump of Seyfert 1 type active galactic nuclei
Walter, R., Fink, H.H. **274**, 105
- Variability and emission mechanisms in Seyfert 1 galaxies: a near-infrared outburst in NGC 4051
Salvati, M., Hunt, L.K., Calamai, G., Del Zanna, G., Giannuzzo, E., Kidger, M., Mannucci, F., Stanga, R.M., Wamsteker, W. **274**, 174
- Accurate wavelengths of near-infrared coronal lines from spectroscopic measurements of NGC 6302
Reconditi, M., Oliva, E. **274**, 662
- The merging Seyfert galaxies Mkn 423 and Mkn 739
Rafanelli, P., Marziani, P., Birkle, K., Thiele, U. **275**, 451
- A detailed analysis of the extended ionized nebulosity surrounding NGC 4388
Petitjean, P., Durret, F. **277**, 365
- NGC 6951: circumnuclear star formation around a Seyfert nucleus
Boer, B., Schulz, H. **277**, 397
- The evidence for anisotropy of the ionizing continuum of NGC 4151
Schulz, H., Komossa, S. **278**, 29
- Galaxies: spiral**
- Secular evolution of isolated barred galaxies. I. Gravitational coupling between stellar bars and interstellar medium
Friedli, D., Benz, W. **268**, 65
- Kinematical models of warped disks
Arnaboldi, M., Galletta, G. **268**, 411
- Structure of the spiral arms of NGC 4258 in H α and at 2000 Å
Courtès, G., Petit, H., Hua, C.T., Martin, P., Blecha, A., Huguenin, D., Golay, M. **268**, 419
- The bulge of M 104: stellar content and kinematics
Hes, R., Peletier, R.F. **268**, 539
- A CO(1-0) and CO(2-1) survey of nearby spiral galaxies. III. More H₂ gas in perturbed galaxies?
Braine, J., Combes, F. **269**, 7
- On the transparency of the inner regions of early-type spiral galaxies
Simien, F., Morenas, V., Valentijn, E.A. **269**, 111
- The distribution of CO in NGC 4945
Dahlem, M., Golla, G., Whiteoak, J.B., Wielebinski, R., Hüttemeister, S., Henkel, C. **270**, 29
- On the predictive power of the minimum energy condition. I. Isotropic steady-state configurations
Pohl, M. **270**, 91
- On the coherent orientation of spins of spiral galaxies
Garrido, J.L., Battaner, E., Sánchez-Saavedra, M.L., Florido, E. **271**, 84
- Bars in early- and late-type galaxies
Combes, F., Elmegreen, B.G. **271**, 391
- Grand design and flocculent spiral structure in computer simulations with star formation and gas heating
Elmegreen, B.G., Thomasson, M. **272**, 37
- Distribution and motions of H I in the ringed galaxy NGC 4736
Mulder, P.S., van Driel, W. **272**, 63
- Molecular gas in nearby galaxies. I. CO observations of a distance-limited sample
Sage, L.J. **272**, 123
- A model of the tidal interaction between M 81 and NGC 3077
Thomasson, M., Donner, K.J. **272**, 153
- Angular momentum in binary spiral galaxies
Oosterloo, T. **272**, 389
- New H I observations for some edge-on spiral galaxies
Garcia, A.M., Bottinelli, L., Garnier, R., Gouguenheim, L., Paturel, G. **272**, 753 (**97**, 801)
- A CO(1-0) and CO(2-1) survey of nearby spiral galaxies. I. Data and observations
Braine, J., Combes, F., Casoli, F., Dupraz, C., Gérin, M., Klein, U., Wielebinski, R., Brouillet, N. **272**, 754 (**97**, 887)
- Ionized gas and intrinsic magnetic fields in the spiral galaxy NGC 6946
Ehle, M., Beck, R. **273**, 45
- The southern barred spiral NGC 2442
Sérsic, J.L., Donzelli, C. **273**, 350 (**98**, 21)
- Warped disks, shells and other features of galaxies in the IC 4296 group, as revealed by Schmidt plate co-addition
Kemp, S.N., Meaburn, J. **274**, 19
- CO in Messier 51. I. Molecular spiral structure
García-Burillo, S., Guélin, M., Cernicharo, J. **274**, 123
- CO in Messier 51. II. Molecular cloud dynamics
García-Burillo, S., Combes, F., Gerin, M. **274**, 148
- Magnetic fields and thermal gas in M 83
Neininger, N., Beck, R., Sukumar, S., Allen, R.J. **274**, 687
- Spiral structure of M 83: distribution and kinematics of the atomic and ionized hydrogen
Tilanus, R.P.J., Allen, R.J. **274**, 707
- The stellar kinematics of galactic disks
Bottema, R. **275**, 16
- H I observations of binary spiral galaxies
Oosterloo, T., Shostak, S. **275**, 354 (**99**, 379)
- The V-R diagram: a diagnostic tool for the dynamical classification of spiral galaxies
Campos-Aguilar, A., Prieto, M., García, C. **276**, 16
- X-ray luminosity and spiral fraction of nearby clusters of galaxies. Astrophysical consequences of an observational bias
Andreon, S. **276**, L17
- Analysis of the distribution of H II regions in external galaxies. II. Analysis of the spiral structure
García Gómez, C., Athanassoula, E. **276**, 330 (**100**, 431)
- G 76.9+1.0, a supernova remnant with unusual properties
Landecker, T.L., Higgs, L.A., Wendker, H.J. **276**, 522
- Molecular gas in nearby galaxies. II. The data
Sage, L.J. **277**, 363 (**100**, 537)
- Automated identification of OB associations in M 31
Magnier, E.A., Battinelli, P., Lewin, W.H.G., Haiman, Z., van Paradijs, J., Hasinger, G., Pietsch, W., Supper, R., Trümper, J. **278**, 36
- Magnetic buoyancy and the galactic dynamo
Hanasz, M., Lesch, H. **278**, 561
- 1.3 mm emission in the disk of NGC 891: evidence of cold dust
Guélin, M., Zylka, R., Mezger, P.G., Haslam, C.G.T., Kreysa, E., Lemke, R., Sievers, A.W. **279**, L37
- Dark matter in spiral galaxies and the Arimoto-Jablonka photometric model
Persic, M., Salucci, P., Ashman, K.M. **279**, 343
- Dust in spiral galaxies. I
Chini, R., Krügel, E. **279**, 385

Change in angular velocity of perturbed galactic bars

Sundin, M., Donner, K.J., Sundelius, B. **280**, 105

H II regions in spiral galaxies: positions, luminosity function and diameter distribution

Banfi, M., Rampazzo, R., Chincarini, G., Henry, R.B.C. **280**, 373

NGC 4414: a flocculent galaxy with a high gas surface density

Braine, J., Combes, F., van Driel, W. **280**, 451

Galaxies: starburst

Dense gas in nearby galaxies. VI. A large $^{12}\text{C}/^{13}\text{C}$ ratio in a nuclear starburst environment

Henkel, C., Mauersberger, R., Wiklind, T., Hüttemeister, S., Lemme, C., Millar, T.J. **268**, L17

Models and observations of starbursts. II. Starbursts in interacting galaxies

Bernlöhr, K. **268**, 25

Galactic dynamics and magnetic fields. I. Superbubbles in galactic central regions

Lesch, H., Harnett, J. **268**, 58

A CO(1-0) and CO(2-1) survey of nearby spiral galaxies. III. More H_2 gas in perturbed galaxies?

Braine, J., Combes, F. **269**, 7

A study of southern extreme IRAS galaxies. IV. Summary and interpretation of the observations

van den Broek, A.C. **269**, 96

Observations and starburst models of NGC 520

Bernlöhr, K. **270**, 20

The distribution of CO in NGC 4945

Dahlem, M., Golla, G., Whiteoak, J.B., Wielebinski, R., Hüttemeister, S., Henkel, C. **270**, 29

Distribution of molecular gas in the primeval galaxy IRAS F 10214+4724

Radford, S.J.E., Brown, R.L., Vanden Bout, P.A. **271**, L21

Compact subarcsec structures of the double nucleus of NGC 6240 revealed with HST

Barbieri, C., Rafanelli, P., Schulz, H., Albrecht, R., Blades, J.C., Boksenberg, A., Crane, P., Deharveng, J.M., Disney, M.J., Jakobsen, P., Kamperman, T.M., King, I.R., Macchetto, F., Mackay, C.D., Paresce, F., Weigelt, G., Baxter, D., Greenfield, P., Jedrzejewski, R., Nota, A., Sparks, W.B. **273**, 1

Ram-pressure accretion of intergalactic gas clouds by galaxies

Sofue, Y., Wakamatsu, K. **273**, 79

Emission-line galaxies in the Hamburg Quasar Survey

Vogel, S., Engels, D., Hagen, H.-J., Groote, D., Wisotzki, L., Cordis, L., Reimers, D. **273**, 353 (**98**, 193)

C and O nucleosynthesis in starbursts: the connection between distant mergers, the Galaxy, and the solar system

Henkel, C., Mauersberger, R. **274**, 730

Star formation in galactic nuclei

Krügel, E., Tutukov, A.V. **275**, 416

The merging Seyfert galaxies Mkn 423 and Mkn 739

Rafanelli, P., Marziani, P., Birkel, K., Thiele, U. **275**, 451

First results from a deep spectroscopic survey of faint red galaxies: clues on the nature of low redshift dwarf galaxies

Tresse, L., Hammer, F., Le Fèvre, O., Proust, D. **277**, 53

The clouds of M 82. I. HCN in the southwest part

Brouillet, N., Schilke, P. **277**, 381

NGC 6951: circumnuclear star formation around a Seyfert nucleus

Boer, B., Schulz, H. **277**, 397

Extinction and the wavelength-dependent positions of the nuclei of NGC 6240

Schulz, H., Fried, J.W., Röser, S., Keel, W.C. **277**, 416

Resolving the kinematical structure within the nuclear starburst of NGC 253

Muñoz-Tuñón, C., Vilchez, J.M., Castañeda, H.O. **278**, 364

A study of the unusual starburst galaxy Markarian 603 (=NGC 1222)

Petrosian, A.R., Burenkov, A.N. **279**, 21

Near-infrared images of IRAS galaxies

Zenner, S., Lenzen, R. **279**, 337 (**101**, 363)

Galaxies: star clusters

Radial distribution of metallicity in the LMC cluster systems

Kontizas, M., Kontizas, E., Michalitsianos, A.G. **269**, 107

Globular clusters in the Local Group of galaxies: a statistical approach

Covino, S., Pasinetti Fracassini, L.E. **270**, 83

New globular cluster candidates in the inner regions of M 31 and the projected density profile of the cluster system

Battistini, P.L., Bònoli, F., Casavecchia, M., Ciotti, L., Federici, L., Fusi Pecci, F. **272**, 77

Spatial distribution of stellar mass in the Large Magellanic Cloud star clusters

Subramaniam, A., Sagar, R., Bhatt, H.C. **273**, 100

Kinematics of a sample of globular clusters in the halo and the mass of M 31

Federici, L., Bònoli, F., Ciotti, L., Fusi Pecci, F., Marano, B., Lipovetsky, V.A., Neizvestny, S.J., Spassova, N. **274**, 87

Colour evolution models and the distribution of LMC clusters in the integrated UBV plane

Girardi, L., Bica, E. **274**, 279

HDE 269828: a reddened massive star cluster

Heydari-Malayeri, M., Grebel, E.K., Melnick, J., Jorda, L. **278**, 11

Automated identification of OB associations in M 31

Magnier, E.A., Battinelli, P., Lewin, W.H.G., Haiman, Z., van Paradijs, J., Hasinger, G., Pietsch, W., Supper, R., Trümper, J. **278**, 36

The extinction and star clusters in NGC 1275

Nørgaard-Nielsen, H.U., Goudfrooij, P., Jørgensen, H.E., Hansen, L. **279**, 61

The OB association LH 90 in the LMC: its age structure and Wolf-Rayet stars

Testor, G., Schild, H., Lortet, M.C. **280**, 426

Galaxies: stellar content

Models and observations of starbursts. II. Starbursts in interacting galaxies

Bernlöhr, K. **268**, 25

Star formation history of the young association NGC 1948 at the edge of the supergiant shell LMC 4

Vallenari, A., Bomans, D.J., de Boer, K.S. **268**, 137

Moving microlensing caustics

Schramm, T., Kayser, R., Chang, K., Nieser, L., Refsdal, S. **268**, 350

The rate of supernovae. I. The data base, the recipe and the uncertainties

Cappellaro, E., Turatto, M., Benetti, S., Tsvetkov, D.Y., Bartunov, O.S., Makarova, I.N. **268**, 472

Microlensing predictions for the Einstein Cross 2237+0305

Witt, H.J., Kayser, R., Refsdal, S. **268**, 501

The bulge of M 104: stellar content and kinematics

Hes, R., Peletier, R.F. **268**, 539

Observations and starburst models of NGC 520

Bernlöhr, K. **270**, 20

- Low-luminosity early-type galaxies. I. Photometry and morphology
Prugniel, P., Bica, E., Klotz, A., Alloin, D. **273**, 353 (**98**, 229)
- The rate of supernovae. II. The selection effects and the frequencies per unit blue luminosity
Cappellaro, E., Turatto, M., Benetti, S., Tsvetkov, D.Y., Bartunov, O.S., Makarova, I.N. **273**, 383
- Photometric distances to five dwarf galaxies in the vicinity of M 81
Tikhonov, N.A., Karachentsev, I.D. **275**, 39
- Photometric distances to the nearby galaxies IC 10, IC 342, and UGCA 86, visible through the Milky Way
Karachentsev, I.D., Tikhonov, N.A. **276**, 327 (**100**, 227)
- A new technique to gauge luminosity fluctuations in galaxies. I. An application to NGC 1374 and 1375
Lorenz, H., Böhm, P., Capaccioli, M., Richter, G.M., Longo, G. **277**, L15
- An atlas of Balmer lines (H δ and H γ)
Cananzi, K., Augarde, R., Lequeux, J. **279**, 678 (**101**, 599)
- An objective-prism survey of emission-line objects in M 31
Meyssonnier, N., Lequeux, J., Azzopardi, M. **280**, 346 (**102**, 251)
- The 1.5–1.7 μ m spectrum of cool stars: line identifications, indices for spectral classification and the stellar content of the Seyfert galaxy NGC 1068
Origlia, L., Moorwood, A.F.M., Oliva, E. **280**, 536
- Galaxies: structure**
- Secular evolution of isolated barred galaxies. I. Gravitational coupling between stellar bars and interstellar medium
Friedli, D., Benz, W. **268**, 65
- Kinematical models of warped disks
Arnaboldi, M., Galletta, G. **268**, 411
- Distribution and motions of atomic hydrogen in lenticular galaxies. X. The blue S0 galaxy NGC 5102
van Woerden, H., van Driel, W., Braun, R., Rots, A.H. **269**, 15
- Computational issues connected with 3D N-body simulations
Pfenniger, D., Friedli, D. **270**, 573
- X-ray emission and temperature profiles for optically selected models of elliptical galaxies
Bertin, G., Pignatelli, E., Saglia, R.P. **271**, 381
- Bars in early- and late-type galaxies
Combes, F., Elmegreen, B.G. **271**, 391
- Distribution and motions of H I in the ringed galaxy NGC 4736
Mulder, P.S., van Driel, W. **272**, 63
- Isophote twists in the nuclear regions of barred spiral galaxies
Shaw, M.A., Combes, F., Axon, D.J., Wright, G.S. **273**, 31
- Warped disks, shells and other features of galaxies in the IC 4296 group, as revealed by Schmidt plate co-addition
Kemp, S.N., Meaburn, J. **274**, 19
- Deep kinematics and dynamics of edge-on S0 galaxies. I. NGC 3115
Capaccioli, M., Cappellaro, E., Held, E.V., Vietri, M. **274**, 69
- Spiral structure of M 83: distribution and kinematics of the atomic and ionized hydrogen
Tilanus, R.P.J., Allen, R.J. **274**, 707
- Identification and morphology of optically faint extragalactic IRAS sources
Klaas, U., Elsässer, H. **274**, 1015 (**99**, 71)
- The stellar kinematics of galactic disks
Bottema, R. **275**, 16
- Bars within bars in lenticular and spiral galaxies: a step in secular evolution?
Friedli, D., Martinet, L. **277**, 27
- The clouds of M 82. I. HCN in the southwest part
Brouillet, N., Schilke, P. **277**, 381
- A photometric study of interacting galaxies. II. Analysis of the results
Reshetnikov, V.P., Hagen-Thorn, V.A., Yakovleva, V.A. **278**, 351
- Analysis of the H II region distribution in external galaxies. III. Global properties and the radial distribution
Athanassoula, E., García Gómez, C., Bosma, A. **280**, 345 (**102**, 229)
- A photometric and kinematic study of the interacting pair NGC 5953/54
Reshetnikov, V.P. **280**, 400
- The distribution of ionized gas in early-type galaxies
Buson, L.M., Sadler, E.M., Zeilinger, W.W., Bertin, G., Bertola, F., Danziger, I.J., Dejonghe, H., Saglia, R.P., de Zeeuw, P.T. **280**, 409
- Galaxy: abundances**
- Metallicities and radial velocities of old open clusters
Friel, E.D., Janes, K.A. **267**, 75
- Interstellar lithium and the $^7\text{Li}/^6\text{Li}$ ratio toward ρ Ophiuchi
Lemoine, M., Ferlet, R., Vidal-Madjar, A., Emerich, C., Bertin, P. **269**, 469
- The contribution of Type Ia supernovae to the galactic iron abundances
Bravo, E., Isern, J., Canal, R. **270**, 288
- Constraints on the nucleosynthesis of Cu and Zn from models of chemical evolution of the Galaxy
Matteucci, F., Raiteri, C.M., Busso, M., Gallino, R., Gratton, R. **272**, 421
- Observations of the Galactic centre with the TTM instrument
Nottingham, M.R., Skinner, G.K., Willmore, A.P., Borozdin, K.N., Churazov, E., Sunyaev, R. **272**, 734 (**97**, 165)
- The interstellar $^{12}\text{CH}^+ / ^{13}\text{CH}^+$ ratio towards the Sco OB1 association
Vladilo, G., Centurión, M., Càssola, C. **273**, 239
- A new method for determining the $^3\text{He}/^4\text{He}$ ratio in the local interstellar medium
Lemoine, M., Vidal-Madjar, A., Ferlet, R. **273**, 611
- On the galactic age problem: determination of the [Th/Eu] ratio in halo stars
François, P., Spite, M., Spite, F. **274**, 821
- On the Li production by galactic C stars
Abia, C., Isern, J., Canal, R. **275**, 96
- The chemical evolution of the galactic disk. I. Analysis and results
Edvardsson, B., Andersen, J., Gustafsson, B., Lambert, D.L., Nissen, P.E., Tomkin, J. **275**, 101
- Isotopic anomalies in cosmic rays and the metallicity gradient in the Galaxy
Maeder, A., Meynet, G. **278**, 406
- On the abundance spread in solar neighbourhood stars
François, P., Matteucci, F. **280**, 136
- The chemical evolution of the galactic disk. II. Observational data
Edvardsson, B., Andersen, J., Gustafsson, B., Lambert, D.L., Nissen, P.E., Tomkin, J. **280**, 349 (**102**, 603)
- Chemical behaviour of planetary nebulae and galactic abundance gradients
Pasquali, A., Perinotto, M. **280**, 581
- Galaxy: center**
- Blanketing effects in the very metal-rich bulge globular cluster Terzan 1
Ortolani, S., Bica, E., Barbuy, B. **267**, 66
- Molecular clouds as tracers of the dynamics in the central region of the galaxy
von Linden, S., Duschl, W.J., Biermann, P.L. **269**, 169
- A rotating black hole in the galactic center
Falcke, H., Biermann, P.L., Duschl, W.J., Mezger, P.G. **270**, 102

Investigation of astrophysical filaments and determination of their size

Rosso, F., Pelletier, G. **270**, 416

SIGMA soft γ -ray observations of 1E 1740.7-2942 in the spring of 1992: discovery of a sub-luminous state of emission and precise γ -ray position measurement

Cordier, B., Paul, J., Goldwurm, A., Laurent, P., Bouchet, L., Jourdain, E., Roques, J.P., Mandrou, P., Gilfanov, M., Churazov, E., Sunyaev, R., Khavenson, N., Dyachkov, A., Novikov, B., Kremnev, R., Kovtunenkov, V. **272**, 277

Overview of two-year observations with SIGMA on board GRANAT
Mandrou, P., Jourdain, E., Bassani, L., Vedrenne, G., Paul, J., Leray, J.-P., Lebrun, F., Ballet, J., Churazov, E., Gilfanov, M., Sunyaev, R., Bogomolov, A., Khavenson, N., Kuleshova, N., Tserenin, I., Sukhanov, K. **272**, 724 (97, 1)

Initial results from OSSE on the Compton Observatory

Johnson, W.N., Kurfess, J.D., Purcell, W.R., Matz, S.M., Ulmer, M.P., Strickman, M.S., Murphy, R.J., Grabelsky, D.A., Kinzer, R.L., Share, G.H., Cameron, R.A., Kroeger, R.A., Maisack, M., Jung, G.V., Jensen, C.M., Clayton, D.D., Leising, M.D., Grove, J.E., Dyer, C.S. **272**, 725 (97, 21)

Preliminary results from the High Resolution Gamma-ray and hard X-ray Spectrometer (HIREGS) long duration balloon flight in Antarctica

Feffer, P.T., Lin, R.P., Smith, D.M., Hurley, K.C., Kane, S.R., McBride, S., Primbsch, J.H., Youssefi, K., Zimmer, G., Pelling, R.M., Cotin, F., Lavigne, J.M., Rouaix, G., Slassi, S., Vedrenne, G., Pehl, R., Cork, C., Luke, P., Madden, N., Malone, D. **272**, 726 (97, 31)

A search for weak gamma-ray bursts with GRANAT/SIGMA

Sunyaev, R., Churazov, E., Gilfanov, M., Terekhov, O., Dyachkov, A., Khavenson, N., Kovtunenkov, V., Kremnev, R., Claret, A., Lebrun, F., Goldwurm, A., Paul, J., Pelaez, F., Atteia, J.L., Mandrou, P., Vedrenne, G. **272**, 729 (97, 85)

On the diffuse galactic emission at 511 keV and 1809 keV

Prantzos, N. **272**, 731 (97, 119)

Diffuse Galactic annihilation radiation

Ramaty, R., Lingenfelter, R.E. **272**, 732 (97, 127)

X- and gamma-rays from the Galactic centre

Skinner, G.K. **272**, 733 (97, 149)

EXITE observation of the Galactic center: a new transient?

Grindlay, J.E., Covault, C.E., Manandhar, R.P. **272**, 733 (97, 155)

High-resolution spectrum of the Galactic center

Mahoney, W.A., Ling, J.C., Wheaton, W.A. **272**, 733 (97, 159)

Observations of the Galactic centre with the TTM instrument

Nottingham, M.R., Skinner, G.K., Willmore, A.P., Borozdin, K.N., Churazov, E., Sunyaev, R. **272**, 734 (97, 165)

Hard X-ray observation of GRS 1758-258

Bazzano, A., Cocchi, M., La Padula, C., Sood, R., Ubertini, P. **272**, 734 (97, 169)

Spectral states of 1E 1740.7-2942

Churazov, E., Gilfanov, M., Sunyaev, R., Dyachkov, A., Khavenson, N., Kovtunenkov, V., Kremnev, R., Sukhanov, K., Niel, M., Bouchet, L., Mandrou, P., Roques, J.P., Cordier, B., Goldwurm, A., Lebrun, F., Leray, J.P. **272**, 734 (97, 173)

Two-year monitoring of persistent point sources in the Galactic center region at soft γ -ray energies with SIGMA

Cordier, B., Goldwurm, A., Leray, J.P., Paul, J., Bouchet, L., Mandrou, P., Niel, M., Roques, J.P., Churazov, E., Gilfanov, M., Sunyaev, R., Dyachkov, A., Khavenson, N., Kremnev, R., Sukhanov, K., Kuleshova, N. **272**, 734 (97, 177)

First results from COMPTEL measurement of the ^{26}Al 1.8 MeV gamma-ray line from the Galactic center region

Diehl, R., Bennett, K., Bloemen, H., deBoer, H., Busetta, M., Collmar, W., Connors, A., den Herder, J.W., de Vries, C., Hermesen, W., Knödseder, J., Kuiper, L., Lichti, G.G., Lockwood, J., Macri, J., McConnell, M., Morris, D., Much, R., Ryan, J., Schönfelder, V., Simpson, G., Stacy, J.G., Steinle, H., Strong, A.W., Swanenburg, B.N., Varendorff, M., von Ballmoos, P. **272**, 735 (97, 181)

High energy observation of the Galactic center region 511 keV and ^{26}Al lines with HEXAGONE

Durouchoux, P., Wallyn, P., Chapuis, C., Matteson, J., Bowman, B., Pelling, M., Peterson, L., Vedrenne, G., von Ballmoos, P., Malet, I., Niel, M., Lin, R., Feffer, P., Smith, D., Hurley, K. **272**, 735 (97, 185)

Search for the compact 511 keV radiation source in the Galactic center region with SIGMA

Lei, F., Roques, J.P., Mandrou, P., Vedrenne, G., Ballet, J., Cordier, B., Lebrun, F., Leray, J.P., Churazov, E., Gilfanov, M., Sunyaev, R., Bogomolov, A., Khavenson, N., Kuleshova, N., Tserenin, I., Sukhanov, K. **272**, 735 (97, 189)

VLA observations of the hard X-ray sources 1E 1740.7-2942 and GRS 1758-258

Mirabel, I.F., Rodríguez, L.F., Cordier, B., Paul, J., Lebrun, F. **272**, 735 (97, 193)

HEXAGONE observation of the Galactic center gamma-ray continuum

Smith, D.M., Lin, R.P., Feffer, P., Hurley, K., Slassi, S., von Ballmoos, P., Malet, I., Niel, M., Vedrenne, D., Matteson, J., Bowman, H.B., Pelling, R.M., Peterson, L.E., Durouchoux, P., Wallyn, P., Chapuis, C., Cork, C., Landis, D., Luke, P., Madden, N., Malone, D., Pehl, R., Pollard, M. **272**, 736 (97, 199)

Studies of hard X-ray source variability using BATSE

Paciesas, W.S., Harmon, B.A., Pendleton, G.N., Finger, M.H., Fishman, G.J., Meegan, C.A., Rubin, B.C., Wilson, R.B. **272**, 739 (97, 253)

Distribution and studies of the infrared stellar population in the Galaxy. V. Other clear regions around the Galactic centre

Ruelas-Mayorga, R.A., Teague, P.F. **272**, 751 (97, 587)

First 43 GHz VLBI detection of the compact source Sgr A* in the Galactic Center

Krichbaum, T.P., Zensus, J.A., Witzel, A., Mezger, P.G., Standke, K.J., Schalinski, C.J., Alberdi, A., Marcaide, J.M., Zylka, R., Rogers, A.E.E., Booth, R.S., Rönning, B.O., Colomer, F., Bartel, N., Shapiro, I.I. **274**, L37

Kinematics of neutral gas in the bulge of the Milky Way

Burton, W.B., Liszt, H.S. **274**, 765

The soft γ -ray source 1E 1740.7-2942 revisited: SIGMA observation of a new transient activity beyond 200 keV

Cordier, B., Paul, J., Ballet, J., Goldwurm, A., Bouchet, L., Roques, J.P., Mandrou, P., Vedrenne, G., Churazov, E., Gilfanov, M., Sunyaev, R., Novikov, B., Chulkov, I., Kuleshova, N., Tserenin, I., Sheikhet, A. **275**, L1

Molecular clouds close to the Galactic Center

Biermann, P.L., Duschl, W.J., von Linden, S. **275**, 153

Elliptical streamlines in the inner Galaxy and their large-scale organization

Kampmann, H., Rohlf, K., Kreitschmann, J. **276**, 339

A multilevel study of ammonia in star forming regions. V. The Sgr B2 region

Hüttemeister, S., Wilson, T.L., Henkel, C., Mauersberger, R. **276**, 445

VLBA image of Sgr A* at $\lambda = 1.35$ cm

Alberdi, A., Lara, L., Marcaide, J.M., Elósegui, P., Shapiro, I.J., Cotton, W.D., Diamond, P.J., Romney, J.D., Preston, R.A. **277**, L1

Two new planetary nebulae in the galactic bulge

Cuisinier, F., Terzan, A., Acker, A. **277**, 203

The Galactic Center radio jet

Falcke, H., Mannheim, K., Biermann, P.L. **278**, L1

Monitoring OH/IR stars at the Galactic centre with the VLA

Van Langevelde, H.J., Janssens, A.M., Goss, W.M., Habing, H.J., Winnberg, A. **279**, 680 (**101**, 109)

Anatomy of the Sagittarius complex. III. Morphology and characteristics of the Sgr B2 giant molecular cloud

Gordon, M.A., Berkemann, U., Mezger, P.G., Zylka, R., Haslam, C.G.T., Kreyss, E., Sievers, A., Lemke, R. **280**, 208

Kinetic temperatures in Galactic Center molecular clouds

Hüttemeister, S., Wilson, T.L., Bania, T.M., Martín-Pintado, J. **280**, 255

Our galactic center: a laboratory for the feeding of active galactic nuclei

von Linden, S., Biermann, P.L., Duschl, W.J., Lesch, H., Schmutzler, T. **280**, 468

Galaxy: evolution

Barium isotopes in the very metal-poor star HD 140283

Magain, P., Zhao, G. **268**, L27

The $\text{Li}/^6\text{Li}$ ratio and the stellar yield of ^7Li

Reeves, H. **269**, 166

Interstellar lithium and the $^7\text{Li}/^6\text{Li}$ ratio toward ρ Ophiuchi

Lemoine, M., Ferlet, R., Vidal-Madjar, A., Emerich, C., Bertin, P. **269**, 469

The contribution of Type Ia supernovae to the galactic iron abundances

Bravo, E., Isern, J., Canal, R. **270**, 288

Constraints on the nucleosynthesis of Cu and Zn from models of chemical evolution of the Galaxy

Matteucci, F., Raiteri, C.M., Busso, M., Gallino, R., Gratton, R. **272**, 421

The interstellar $^{12}\text{CH}^+ / ^{13}\text{CH}^+$ ratio towards the Sco OB1 association

Vladilo, G., Centurión, M., Càssola, C. **273**, 239

A new method for determining the $^3\text{He}/^4\text{He}$ ratio in the local interstellar medium

Lemoine, M., Vidal-Madjar, A., Ferlet, R. **273**, 611

On the galactic age problem: determination of the $[\text{Th}/\text{Eu}]$ ratio in halo stars

François, P., Spite, M., Spite, F. **274**, 821

On the Li production by galactic C stars

Abia, C., Isern, J., Canal, R. **275**, 96

The chemical evolution of the galactic disk. I. Analysis and results

Edvardsson, B., Andersen, J., Gustafsson, B., Lambert, D.L., Nissen, P.E., Tomkin, J. **275**, 101

Absolute dimensions of eclipsing binaries. XX. GG Lupi: young metal-deficient B stars

Andersen, J., Clausen, J.V., Giménez, A. **277**, 439

On the abundance spread in solar neighbourhood stars

François, P., Matteucci, F. **280**, 136

Strömgren four-colour *uvby* photometry of G5-type HD stars brighter than $m_V = 8.6$

Olsen, E.H. **280**, 345 (**102**, 89)

Contribution to the heavy-element abundances in the Galactic halo from s-process nucleosynthesis in massive stars

Baraffe, I., Takahashi, K. **280**, 476

Galaxy: general

Diffuse Galactic low energy gamma-ray continuum emission

Skibo, J.G., Ramaty, R. **272**, 733 (**97**, 145)

Gamma-ray bursters in the galactic disk?

Atteia, J.-L., Dezalay, J.P. **274**, L1

A deep CO survey of the third galactic quadrant

May, J., Bronfman, L., Alvarez, H., Murphy, D.C., Thaddeus, P. **274**, 1015 (**99**, 103)

Optical studies of interstellar material in low density regions of the Galaxy. I. A survey of interstellar Na I and Ca II absorption toward 57 distant stars

Sembach, K.R., Danks, A.C., Savage, B.D. **275**, 688 (**100**, 107)

CO absorption in the outer Galaxy: abundant cold molecular gas

Lequeux, J., Allen, R.J., Guilloteau, S. **280**, 23

(Galaxy:) globular clusters: general

Indications for common origin and gravitational interaction in three binary LMC clusters

Kontizas, E., Kontizas, M., Michalitsianos, A. **267**, 59

Blanketing effects in the very metal-rich bulge globular cluster Terzan 1

Ortolani, S., Bica, E., Barbuy, B. **267**, 66

Globular clusters in the Local Group of galaxies: a statistical approach

Covino, S., Pasinetti Fracassini, L.E. **270**, 83

Horizontal branch evolution

Caloi, V., Mazzitelli, I. **271**, 139

A new method for analyzing horizontal branch morphology and mass loss

Jørgensen, U.G., Thejll, P. **272**, 255

Globular-cluster red giants as a probe of horizontal branch luminosities

Castellani, V., Degl'Innocenti, S., Luridiana, V. **272**, 442

Spectral states of 1E 1740.7-2942

Churazov, E., Gilfanov, M., Sunyaev, R., Dyachkov, A., Khavenson, N., Kovtunen, V., Kremnev, R., Sukhanov, K., Niel, M., Bouchet, L., Mandrou, P., Roques, J.P., Cordier, B., Goldwurm, A., Lebrun, F., Leray, J.P. **272**, 734 (**97**, 173)

Gamma rays from "hidden" millisecond pulsars

Tavani, M. **272**, 742 (**97**, 313)

Lyngå 7: a new disk globular cluster?

Ortolani, S., Bica, E., Barbuy, B. **273**, 415

Synthetic horizontal-branch models for Galactic globular clusters

Catelan, M. **274**, 1013 (**98**, 547)

An atlas of theoretical constraints for horizontal branch stars

Caputo, F., De Rinaldis, A., Manteiga, M., Pulone, L., Quarta, M.L. **276**, 41

On the mass of type-c RR Lyrae variables in globular clusters

Cacciari, C., Bruzzi, A. **276**, 87

High resolution kinematics of galactic globular clusters. II. On the significance of velocity dispersion measurements

Zaggia, S.R., Capaccioli, M., Piotto, G. **278**, 415

(Galaxy:) globular clusters: individual: ...**Lyngå 7**

Lyngå 7: a new disk globular cluster?

Ortolani, S., Bica, E., Barbuy, B. **273**, 415

M 3On the nature of bright Blue Stragglers in the centre of M 3 and NGC 6397: analysis of *UBV* observations

Lauzeral, C., Aurière, M., Coupinot, G. **274**, 214

Statistical properties of stellar populations and surface-brightness fluctuations in galaxies

Buzzoni, A. **275**, 433

M 4

High resolution Na D and K I interstellar profiles towards stars in the globular cluster M4

Kemp, S.N., Bates, B., Lyons, M.A. **278**, 542

M 13

Colour magnitude diagram for the globular cluster M 13

Guarnieri, M.D., Bragaglia, A., Fusi Pecci, F. **280**, 348 (**102**, 397)

M 22

High resolution Na D and H α line profiles of stars in the globular clusters M 22 and ω Centauri

Bates, B., Kemp, S.N., Montgomery, A.S. **272**, 755 (**97**, 937)

NGC 6397

On the nature of bright Blue Stragglers in the centre of M 3 and NGC 6397: analysis of *UBV* observations

Lauzeral, C., Aurière, M., Coupinot, G. **274**, 214

NGC 6624

A high-frequency radio observation of NGC 6624

Johnston, H.M., Kulkarni, S.R. **280**, 523

NGC 7078

High resolution kinematics of galactic globular clusters. II. On the significance of velocity dispersion measurements

Zaggia, S.R., Capaccioli, M., Piotto, G. **278**, 415

NGC 7099

High resolution kinematics of galactic globular clusters. II. On the significance of velocity dispersion measurements

Zaggia, S.R., Capaccioli, M., Piotto, G. **278**, 415

Terzan 1

Blanketing effects in the very metal-rich bulge globular cluster Terzan 1

Ortolani, S., Bica, E., Barbuy, B. **267**, 66

ω Cen

NJL 5: the eclipsing blue straggler in ω Centauri

Helt, B.E., Jørgensen, H.E., King, S., Larsen, A. **270**, 297

High resolution Na D and H α line profiles of stars in the globular clusters M 22 and ω Centauri

Bates, B., Kemp, S.N., Montgomery, A.S. **272**, 755 (**97**, 937)

Galaxy: halo

Galactic diffusion and wind models of cosmic-ray transport. I. Insight from CR composition studies and γ -ray observations

Bloemen, J.B.G.M., Dogiel, V.A., Dorman, V.L., Ptuskin, V.S. **267**, 372

Kinetic theory of propagation and "runaway" of galactic cosmic rays

Dogiel, V.A., Gurevich, A.V., Zybin, K.P. **268**, 356

The nature of two blue stars in the galactic halo

Conlon, E.S., Theissen, A., Moehler, S. **269**, L1

Cosmic antiprotons in the diffusion model. I. General properties in comparison with other models

Halm, I., Jansen, F., de Niem, D. **269**, 601

Interstellar Ca II and Na I in the SN 1987A field. I. Foreground and intermediate velocity gas

Molaro, P., Vladilo, G., Monai, S., D'Odorico, S., Ferlet, R., Vidal-Madjar, A., Dennefeld, M. **274**, 505

Photoelectric β photometry of 118 stars with $14 \leq V \leq 15$ and $B-V \leq 1$ at the south galactic pole

Knude, J. **275**, 355 (**99**, 499)

An atlas of theoretical constraints for horizontal branch stars

Caputo, F., De Rinaldis, A., Manteiga, M., Pulone, L., Quarta, M.L. **276**, 41

Detection of brown dwarfs by the micro-lensing of unresolved stars

Baillon, P., Bouquet, A., Giraud-Héraud, Y., Kaplan, J. **277**, 1

Lensing of invisible stars by brown dwarfs

Bouquet, A. **280**, 1

Intergalactic and galactic clouds on the line of sight to SN 1993J

M 81 seen in IUE spectra

de Boer, K.S., Rodriguez Pascual, P., Wamsteker, W., Sonneborn, G., Fransson, C., Bomans, D.J., Kirshner, R.P. **280**, L15

Space motions of distant red giants: the disk - halo overlap

Flynn, C., Röser, S. **280**, 131

Contribution to the heavy-element abundances in the Galactic halo from s-process nucleosynthesis in massive stars

Baraffe, I., Takahashi, K. **280**, 476

Galaxy: kinematics and dynamics

The 1 : 1 resonance in galactic-type Hamiltonian systems

Caranicolas, N.D. **267**, 388

On the capabilities and limits of smoothed particle hydrodynamics

Steinmetz, M., Müller, E. **268**, 391

Molecular clouds as tracers of the dynamics in the central region of the galaxy

von Linden, S., Duschl, W.J., Biermann, P.L. **269**, 169

Energy and phase space mixing for self-gravitating systems of stars

Kandrup, H.E., Mahon, M.E., Smith Jr., H. **271**, 440

Complex instability

Zachilas, L.G. **272**, 750 (**97**, 549)

Kinematics of the Galaxy's stellar populations from a proper motion survey

Soubiran, C. **274**, 181

Formation of rings in weak bars: inelastic collisions and star formation

Palouš, J., Jungwiert, B., Kopecký, J. **274**, 189

Kinematics of neutral gas in the bulge of the Milky Way

Burton, W.B., Liszt, H.S. **274**, 765

The velocity field of the outer Galaxy

Brand, J., Blitz, L. **275**, 67

The chemical evolution of the galactic disk. I. Analysis and results

Edvardsson, B., Andersen, J., Gustafsson, B., Lambert, D.L., Nissen, P.E., Tomkin, J. **275**, 101

On the age and chemical discreteness of Strömgren's intermediate population II

Knude, J. **275**, 463

The solar motion. III. From space velocities

Jaschek, C., Valbousquet, A. **275**, 472

Study of proper motions in the region of the open cluster M 67 and membership of stars

Zhao, J.L., Tian, K.P., Pan, R.S., He, Y.P., Shi, H.M. **276**, 327 (**100**, 243)

Elliptical streamlines in the inner Galaxy and their large-scale organization

Kampmann, H., Rohlf, K., Kreitschmann, J. **276**, 339

Space motions of distant red giants: the disk – halo overlap
Flynn, C., Röser, S. **280**, 131

(Galaxy:) open clusters and associations: general

Metallicities and radial velocities of old open clusters

Friel, E.D., Janes, K.A. **267**, 75

Searching for embedded clusters in the Cepheus-Cassiopeia region

Pásztor, L., Tóth, L.V., Balázs, L.G. **268**, 108

Erratum: (RN) The initial mass function of the Coma Berenices open cluster (Mel 111)

Bounatiro, L., Arimoto, N. **268**, 829

Stellar rotational velocities from the $V \sin i$ observations: inversion procedures and applications to open clusters

Gaigé, Y. **269**, 267

NGC 6603: a young rich open cluster towards the bulge

Bica, R., Ortolani, S., Barbuy, B. **270**, 117

High energy gamma-ray emission from open clusters

Polcaro, V.F., Brinkmann, W., Giovannelli, F., Manchanda, R.K., Norci, L., Persi, P., Rossi, C. **272**, 732 (**97**, 139)

A detailed study of the sparse open cluster Roslund 3: a case for circumstellar extinction

Turner, D.G. **272**, 752 (**97**, 755)

Spatial distribution of stellar mass in the Large Magellanic Cloud star clusters

Subramaniam, A., Sagar, R., Bhatt, H.C. **273**, 100

Brightness determination on photographic plates using a CCD line scanner

Kroll, P., Neugebauer, P. **273**, 341

New dating of galactic open clusters

Meynet, G., Mermilliod, J.-C., Maeder, A. **274**, 1011 (**98**, 477)

Further observations of stars in the open cluster NGC 5460

Clariá, J.J., Lapasset, E., Bosio, M.A. **274**, 1014 (**99**, 1)

CCD Strömgren *uvby* photometry of the young clusters NGC 1893, NGC 457, Berkeley 94 and Bochum 1

Fitzsimmons, A. **274**, 1014 (**99**, 15)

UBV photometry of open clusters in the Cassiopeia region. II. Photoelectric observations of NGC 654

Huestamendia, G., del Rio, G., Mermilliod, J.-C. **275**, 687 (**100**, 25)

Erratum: NGC 6603: a young rich open cluster towards the bulge

Bica, E., Ortolani, S., Barbuy, B. **277**, 360

Bright blue stars in Vela observed with the "Glazar" space telescope
Tovmassian, H.M., Hovhannessian, R.K., Epremian, R.A., Huguénin, D. **277**, 362 (**100**, 501)

Member stars of the open cluster Mel 111 in Coma Berenices (*Text in French*)

Bounatiro, L. **277**, 362 (**100**, 531)

Erratum: Member stars of the open cluster Mel 111 in Coma Berenices (*Text in French*)

Bounatiro, L. **277**, 362 (**102**, 673)

Membership study in multidimensional data space with an application to the open cluster NGC 6823

Kuznetsov, V.I., Lazorenko, G.A., Lazorenko, P.F. **278**, 43

Superbubbles in galaxies: a new class of nonthermal sources

Bykov, A.M., Fleishman, G.D. **280**, L27

Photoelectric search for peculiar stars in open clusters. XIV. NGC 1901, NGC 2169, NGC 2343, Cr 132, NGC 2423 and NGC 2447

Maitzen, H.M. **280**, 343 (**102**, 1)

The OB association LH 90 in the LMC: its age structure and Wolf-Rayet stars

Testor, G., Schild, H., Lortet, M.C. **280**, 426

(Galaxy:) open clusters and associations: individual: ...

Berkeley 94

CCD Strömgren *uvby* photometry of the young clusters NGC 1893, NGC 457, Berkeley 94 and Bochum 1

Fitzsimmons, A. **274**, 1014 (**99**, 15)

Bochum 1

The chemical compositions of the distant galactic open clusters Bochum 1 and NGC 1893

Rolleston, W.R.J., Brown, P.J.F., Dufton, P.L., Fitzsimmons, A. **270**, 107

CCD Strömgren *uvby* photometry of the young clusters NGC 1893, NGC 457, Berkeley 94 and Bochum 1

Fitzsimmons, A. **274**, 1014 (**99**, 15)

Cepheus OB3

H α interferometric, optical and near IR photometric studies of star forming regions. I. The Cepheus B/Sh2-155/Cepheus OB3 association complex

Moreno-Corral, M.A., Chavarría-K., C., de Lara, E., Wagner, S. **273**, 619

Com (Mel 111)

Erratum: (RN) The initial mass function of the Coma Berenices open cluster (Mel 111)

Bounatiro, L., Arimoto, N. **268**, 829

Cyg OB1

Anomalous proper motions in the Cygnus Superbubble region

Comerón, F., Torra, J., Jordi, C., Gómez, A.E. **279**, 679 (**101**, 37)

Cyg OB7

Anomalous proper motions in the Cygnus Superbubble region

Comerón, F., Torra, J., Jordi, C., Gómez, A.E. **279**, 679 (**101**, 37)

Hyades

Stellar rotational velocities from the $V \sin i$ observations: inversion procedures and applications to open clusters

Gaigé, Y. **269**, 267

The Hyades distance and white dwarf constraints

Weidemann, V. **275**, 158

Intensity of CaH lines in cool dwarfs

Barbuy, B., Schiavon, R.P., Gregorio-Hetem, J., Singh, P.D., Baltha, C. **279**, 338 (**101**, 409)

M 67

ROSAT detection of stellar X-ray sources in the old open cluster M 67

Belloni, T., Verbunt, F., Schmitt, J.H.M.M. **269**, 175

Study of proper motions in the region of the open cluster M 67 and membership of stars

Zhao, J.L., Tian, K.P., Pan, R.S., He, Y.P., Shi, H.M. **276**, 327 (**100**, 243)

Mel 111

Member stars of the open cluster Mel 111 in Coma Berenices (*Text in French*)

Bounatiro, L. **277**, 362 (**100**, 531)

Erratum: Member stars of the open cluster Mel 111 in Coma Berenices (Text in French)

Bounatiro, L. 277, 362 (102, 673)

NGC 330 (SMC)

A far UV investigation of luminous hot stars in the SMC cluster NGC 330

Caloi, V., Cassatella, A., Castellani, V., Walker, A. 271, 109

NGC 457

CCD Strömgren *uvby* photometry of the young clusters NGC 1893, NGC 457, Berkeley 94 and Bochum 1

Fitzsimmons, A. 274, 1014 (99, 15)

NGC 654

UBV photometry of open clusters in the Cassiopeia region. II. Photoelectric observations of NGC 654

Huestamendia, G., del Rio, G., Mermilliod, J.-C. 275, 687 (100, 25)

NGC 752

Two intermediate age open clusters: NGC 752 and NGC 3680

Carraro, G., Bertelli, G., Bressan, A., Chiosi, C. 279, 337 (101, 381)

NGC 1893

The chemical compositions of the distant galactic open clusters Bochum 1 and NGC 1893

Rolleston, W.R.J., Brown, P.J.F., Dufton, P.L., Fitzsimmons, A. 270, 107

CCD Strömgren *uvby* photometry of the young clusters NGC 1893, NGC 457, Berkeley 94 and Bochum 1

Fitzsimmons, A. 274, 1014 (99, 15)

NGC 1948 (LMC)

Star formation history of the young association NGC 1948 at the edge of the supergiant shell LMC 4

Vallenari, A., Bomans, D.J., de Boer, K.S. 268, 137

NGC 2264

uvby and JHKLM photometry of peculiar stars in the galactic cluster NGC 2264

Neri, L.J., Chavarría-K., C., de Lara, E. 280, 345 (102, 201)

NGC 3532

Spectroscopic identification of white dwarfs in galactic clusters. VI. Three new white dwarfs in NGC 3532

Koester, D., Reimers, D. 275, 479

NGC 3680

Two intermediate age open clusters: NGC 752 and NGC 3680

Carraro, G., Bertelli, G., Bressan, A., Chiosi, C. 279, 337 (101, 381)

NGC 5460

Further observations of stars in the open cluster NGC 5460

Clariá, J.J., Lapasset, E., Bosio, M.A. 274, 1014 (99, 1)

NGC 6603

NGC 6603: a young rich open cluster towards the bulge

Bica, R., Ortolani, S., Barbuy, B. 270, 117

Erratum: NGC 6603: a young rich open cluster towards the bulge

Bica, E., Ortolani, S., Barbuy, B. 277, 360

NGC 6802

Prospects of stellar variability using a CCD: the discovery of a new W Ursae Majoris system in the open cluster NGC 6802

Vidal, I., Belmonte, J.A. 274, 265

NGC 6823

Membership study in multidimensional data space with an application to the open cluster NGC 6823

Kuznetsov, V.I., Lazorenko, G.A., Lazorenko, P.F. 278, 43

Orion Trapezium

The Orion radio zoo revisited: source variability

Felli, M., Taylor, G.B., Catarzi, M., Churchwell, E., Kurtz, S. 279, 680 (101, 127)

Pleiades

Stellar rotational velocities from the $V \sin i$ observations: inversion procedures and applications to open clusters

Gaigé, Y. 269, 267

ROSAT all-sky X-ray survey of the core region of the Pleiades cluster

Schmitt, J.H.M.M., Kahabka, P., Stauffer, J., Pifers, A.J.M. 277, 114

Very low mass proper motion members in the Pleiades

Hambly, N.C., Hawkins, M.R.S., Jameson, R.F. 277, 364 (100, 607)

Roslund 3

A detailed study of the sparse open cluster Roslund 3: a case for circumstellar extinction

Turner, D.G. 272, 752 (97, 755)

Sco OB1

The interstellar $^{12}\text{CH}^+ / ^{13}\text{CH}^+$ ratio towards the Sco OB1 association

Vladilo, G., Centurión, M., Càssola, C. 273, 239

α Per

Stellar rotational velocities from the $V \sin i$ observations: inversion procedures and applications to open clusters

Gaigé, Y. 269, 267

Analysis of IRAS stellar sources in the α Persei region

Trullols, E., Jordi, C. 276, 328 (100, 311)

30 Dor (LMC)

The OB association LH 90 in the LMC: its age structure and Wolf-Rayet stars

Testor, G., Schild, H., Lortet, M.C. 280, 426

(Galaxy:) solar neighbourhood

A dense H I filament in the local X-ray emitting plasma: ROSAT observation of LVC 88+36-2

Kerp, J., Herbstmeier, U., Mebold, U. 268, L21

Small-scale polarization structure in the diffuse galactic emission at 325 MHz

Wieringa, M.H., de Bruyn, A.G., Jansen, D., Brouw, W.N., Kat-gert, P. 268, 215

Time- and space-variable structures of interstellar gas passing over the heliosphere: consequences for the interplanetary UV resonance glow

Fahr, H.J., Rucinski, D., Judge, D.L. **268**, 792

A polarimetric investigation on interstellar dust within 50 pc from the Sun

Leroy, J.L. **274**, 203

The solar motion. III. From space velocities

Jaschek, C., Valbousquet, A. **275**, 472

Determination of the heliospheric shock and of the supersonic solar wind geometry by means of the interstellar wind parameters

Fahr, H.-J., Fichtner, H., Scherer, K. **277**, 249

The Na I/Ca II ratio in the local interstellar medium

Bertin, P., Lallement, R., Ferlet, R., Vidal-Madjar, A. **278**, 549

Optical polarization of 1000 stars within 50 pc of the Sun

Leroy, J.L. **279**, 677 (**101**, 551)

Strömgren four-colour *uvby* photometry of G5-type HD stars brighter than $m_v = 8.6$

Olsen, E.H. **280**, 345 (**102**, 89)

Galaxy: stellar content

Candidate OH/IR stars in the outer parts of our Galaxy

Blommaert, J.A.D.L., van der Veen, W.E.C.J., Habing, H.J. **267**, 39

vby-β CCD field star photometry with the Nordic Optical Telescope

Jönch-Sørensen, H. **267**, 54

On the formation rate and space density of close white dwarf main sequence star binaries

de Kool, M., Ritter, H. **267**, 397

The space density of classical novae in the galactic disk

Della Valle, M., Duerbeck, H.W. **271**, 175

On the diffuse galactic emission at 511 keV and 1809 keV

Prantzos, N. **272**, 731 (**97**, 119)

Diffuse Galactic annihilation radiation

Ramaty, R., Lingenfelter, R.E. **272**, 732 (**97**, 127)

Gamma ray constraints on the Galactic supernova rate

Hartmann, D., The, L.-S., Clayton, D.D., Leising, M., Mathews, G., Woosley, S.E. **272**, 737 (**97**, 219)

Distribution and studies of the infrared stellar population in the Galaxy. V. Other clear regions around the Galactic centre

Ruelas-Mayorga, R.A., Teague, P.F. **272**, 751 (**97**, 587)

A catalog of K giants at the south galactic pole: broadband and DDO photometry and radial velocities

Flynn, C., Freeman, K.C. **272**, 753 (**97**, 835)

uvby-β photometry of high-velocity and metal-poor stars. VI. A second catalogue, and stellar populations of the Galaxy

Schuster, W.J., Parrao, L., Contreras Martínez, M.E. **272**, 755 (**97**, 951)

Photoelectric *uvbyβ* photometry of 230 stars brighter than $m_{pg} = 13.0$ in the two $b = +75^\circ$ fields SA 80 and SA 81

Knude, J. **273**, 353 (**98**, 213)

Identification of 106 new infrared carbon stars in the IRAS Point Source Catalog: near-infrared photometry and their space distribution in the Galaxy

Guglielmo, F., Epchtein, N., Le Bertre, T., Fouqué, P., Hron, J., Kerschbaum, F., Lépine, J.R.D. **274**, 1015 (**99**, 31)

Photoelectric *β* photometry of 118 stars with $14 \leq V \leq 15$ and $B - V \leq 1$ at the south galactic pole

Knude, J. **275**, 355 (**99**, 499)

UBV photometry of galactic foreground and LMC member stars. I. Galactic foreground stars

Gochermann, J., Grothues, H.-G., Oestreicher, M.O., Berghöfer, T., Schmidt-Kaler, T. **275**, 356 (**99**, 591)

On the age and chemical discreteness of Strömgren's intermediate population II

Knude, J. **275**, 463

A search for yellow young disk population stars among EMSS stellar X-ray sources by means of lithium abundance determination

Favata, F., Barbera, M., Micela, G., Sciortino, S. **277**, 428

Isotopic anomalies in cosmic rays and the metallicity gradient in the Galaxy

Maeder, A., Meynet, G. **278**, 406

A model of the Galaxy for predicting star counts in the infrared

Ortiz, R., Lépine, J.R.D. **279**, 90

Space motions of distant red giants: the disk – halo overlap

Flynn, C., Röser, S. **280**, 131

Proper motion probe of the Galaxy in the anticentre direction

Chareton, M., Considère, S., Bienaymé, O. **280**, 350 (**102**, 649)

Galaxy: structure

Candidate OH/IR stars in the outer parts of our Galaxy

Blommaert, J.A.D.L., van der Veen, W.E.C.J., Habing, H.J. **267**, 39

vby-β CCD field star photometry with the Nordic Optical Telescope

Jönch-Sørensen, H. **267**, 54

Metallicities and radial velocities of old open clusters

Friel, E.D., Janes, K.A. **267**, 75

Galactic diffusion and wind models of cosmic-ray transport. I. Insight from CR composition studies and γ -ray observations

Bloemen, J.B.G.M., Dogiel, V.A., Dorman, V.L., Ptuskin, V.S. **267**, 372

Cosmic antiprotons in the diffusion model. I. General properties in comparison with other models

Halm, I., Jansen, F., de Niem, D. **269**, 601

Photographic surface photometry of the Milky Way. VII. High-resolution B surface photometry of the southern Milky Way

Kimeswenger, S., Hoffmann, B., Schlosser, W., Schmidt-Kaler, T. **272**, 749 (**97**, 517)

Photoelectric *uvbyβ* photometry of 230 stars brighter than $m_{pg} = 13.0$ in the two $b = +75^\circ$ fields SA 80 and SA 81

Knude, J. **273**, 353 (**98**, 213)

Lyngå 7: a new disk globular cluster?

Ortolani, S., Bica, E., Barbuy, B. **273**, 415

Kinematics of the Galaxy's stellar populations from a proper motion survey

Soubiran, C. **274**, 181

Formation of rings in weak bars: inelastic collisions and star formation

Palouš, J., Jungwiert, B., Kopecký, J. **274**, 189

A deep CO survey of the third galactic quadrant

May, J., Bronfman, L., Alvarez, H., Murphy, D.C., Thaddeus, P. **274**, 1015 (**99**, 103)

The velocity field of the outer Galaxy

Brand, J., Blitz, L. **275**, 67

The chemical evolution of the galactic disk. I. Analysis and results

Edvardsson, B., Andersen, J., Gustafsson, B., Lambert, D.L., Nissen, P.E., Tomkin, J. **275**, 101

On the age and chemical discreteness of Strömgren's intermediate population II

Knude, J. **275**, 463

Elliptical streamlines in the inner Galaxy and their large-scale organization

Kampmann, H., Rohlf, K., Kreitschmann, J. **276**, 339

Bright blue stars in Vela observed with the "Glazar" space telescope

Tovmassian, H.M., Hovhannessian, R.K., Epremian, R.A., Huguenin, D. **277**, 362 (**100**, 501)

A model of the Galaxy for predicting star counts in the infrared
Ortiz, R., Lépine, J.R.D. **279**, 90

Proper motion probe of the Galaxy in the anticentre direction
Chareton, M., Considère, S., Bienaymé, O. **280**, 350 (**102**, 649)

Gamma rays: bursts

Short optical bursts and acceleration to TeV energies in AE Aquarii
de Jager, O.C., Meintjes, P.J. **268**, L1

Grain depth distribution and the reality of optical transient candidates near the GRB 790325 b position
Hudec, R. **270**, 151

Overview of the first results from EGRET

Fichtel, C.E., Bertsch, D.L., Hartman, R.C., Hunter, S.D., Kanbach, G., Kniffen, D.A., Kwok, P.W., Lin, Y.C., Mattox, J.R., Mayer-Hasselwander, H.A., Michelson, P.F., von Montigny, C., Nolan, P.L., Pinkau, K., Rothermel, H., Schneid, E.J., Sommer, M., Sreekumar, P., Thompson, D.J. **272**, 725 (**97**, 13)

Overview of observations from BATSE on the Compton Observatory
Fishman, G.J., Meegan, C.A., Wilson, R.B., Paciesas, W.S., Pendleton, G.N., Harmon, B.A., Horack, J.M., Brock, M.N., Kouveliotou, C., Finger, M.H. **272**, 725 (**97**, 17)

Initial results from OSSE on the Compton Observatory

Johnson, W.N., Kurfess, J.D., Purcell, W.R., Matz, S.M., Ulmer, M.P., Strickman, M.S., Murphy, R.J., Grabelsky, D.A., Kinzer, R.L., Share, G.H., Cameron, R.A., Kroeger, R.A., Maisack, M., Jung, G.V., Jensen, C.M., Clayton, D.D., Leising, M.D., Grove, J.E., Dyer, C.S. **272**, 725 (**97**, 21)

Gamma-ray burst observations

Atteia, J.-L. **272**, 726 (**97**, 35)

Ulysses precise localizations of gamma-ray bursts

Hurley, K., Sommer, M., Boer, M., Niel, M., Laros, J., Fenimore, E.E., Klebesadel, R., Fishman, G.J., Kouveliotou, C., Meegan, C., Paciesas, W.S., Wilson, R., Cline, T. **272**, 726 (**97**, 39)

Observations of gamma-ray burst spectra between 5 keV and 100 MeV

Barat, C. **272**, 727 (**97**, 43)

Optical counterparts to gamma-ray burst sources. First decade

Hudec, R. **272**, 727 (**97**, 49)

Gamma-ray burst color-color diagrams

Kouveliotou, C., Paciesas, W.S., Fishman, G.J., Meegan, C.A., Wilson, R.B. **272**, 727 (**97**, 55)

The escape of 100 MeV photons from cosmological gamma-ray bursts

Fenimore, E.E., Epstein, R.I., Ho, C. **272**, 727 (**97**, 59)

Temporal structures in gamma-ray bursts

Belli, B.M. **272**, 727 (**97**, 63)

Gamma-ray burst quiescent counterparts in the ROSAT All-Sky Survey data

Boër, M., Greiner, J., Kahabka, P., Motch, C., Voges, W. **272**, 728 (**97**, 69)

COMPTEL observations of gamma-ray bursts: time profiles and spectra

Collmar, W., Bennett, K., Bloemen, H., de Boer, H., Busetta, M., Connors, A., Diehl, R., Greiner, J., Hanlon, L., den Herder, J.W., Hermesen, W., Kuiper, L., Lichti, G.G., Lockwood, J., Macri, J., McConnell, M., Morris, D., Much, R., Ryan, J., Schönfelder, V., Stacy, J.G., Steinle, H., Strong, A.W., Swanenburg, B.N., Taylor, B.G., Varendorff, M., De Vries, C., Webber, W., Williams, O.R., Winkler, C. **272**, 728 (**97**, 71)

COMPTEL observations of gamma-ray bursts: imaging and localization

Connors, A., Aarts, H.J.M., Bennett, K., Bloemen, H., de Boer, H., Busetta, M., Collmar, W., Diehl, R., van Dijk, R., Hanlon, L., den Herder, J.W., Hermesen, W., Kippen, R.M., Kuiper, L., Klumper, A., Lichti, G.G., Lockwood, J., Macri, J., McConnell, M., Morris, D., Much, R., Ryan, J., Schönfelder, V., Simpson, G., Stacy, J.G., Steinle, H., Strong, A.W., Swanenburg, B., Taylor, B., Varendorff, M., de Vries, C., Webber, W., Williams, O.R., Winkler, C. **272**, 728 (**97**, 75)

The duration vs intensity diagram for a subset of PHEBUS gamma-ray bursts

Lestrade, J.P., Dezalay, J.P., Atteia, J.-L., Barat, C., Talon, R., Sunyaev, R., Kuznetsov, A., Terekhov, O., Diachkov, A., Khavenson, N. **272**, 728 (**97**, 79)

Gamma-ray bursts from relativistic jets in cocooned active galactic nuclei and gravitational lensing tests of the cosmological origin

McBreen, B., Plunkett, S., Metcalfe, L. **272**, 729 (**97**, 81)

A search for weak gamma-ray bursts with GRANAT/SIGMA

Sunyaev, R., Churazov, E., Gilfanov, M., Terekhov, O., Dyachkov, A., Khavenson, N., Kovtunen, V., Kremnev, R., Claret, A., Lebrun, F., Goldwurm, A., Paul, J., Pelaez, F., Atteia, J.L., Mandrou, P., Vedrenne, G. **272**, 729 (**97**, 85)

Hard X-ray and gamma-rays from supernovae

Woosley, S.E. **272**, 736 (**97**, 205)

Search for gamma-ray transients using the SMM spectrometer

Share, G.H., Harris, M.J., Leising, M.D., Messina, D.C. **272**, 744 (**97**, 341)

Possible stellar flare contributions to the BATSE gamma-ray burst database

Liang, E.P., Hui Li **273**, L53

Gamma-ray bursters in the galactic disk?

Atteia, J.-L., Dezalay, J.P. **274**, L1

Search for short bursts of gamma-ray emission in spark chamber data: application to COS-B

Buccheri, R., Fry, W.F., Maccarone, M.C. **277**, 353

ROSAT-pointed observations of two gamma-ray burst error boxes

Boër, M., Pizzichini, G., Hartmann, D., Hurley, K., Kouveliotou, C., Motch, C. **277**, 503

Gamma rays: observations

Search for TeV gamma rays from Geminga

Vishwanath, P.R., Sathyanarayana, G.P., Ramanamurthy, P.V., Bhat, P.N. **267**, L5

A rapid optical flare in the distant γ -ray source 0836+710

von Linde, J., Borgeest, U., Schramm, K.-J., Graser, U., Heidt, J., Hopp, U., Meisenheimer, K., Nieser, L., Steinle, H., Wagner, S. **267**, L23

The spectral variability of the γ -ray emission from Geminga and Vela and its implications

Grenier, I.A., Hermesen, W., Henriksen, R.N. **269**, 209

Observations of TeV gamma rays from the Crab nebula

Goret, P., Palfrey, T., Tabary, A., Vacanti, G., Bazer-Bachi, R. **270**, 401

Detection of high energy gamma rays from BL Lac PKS 0235+164 by the EGRET telescope on the Compton observatory

Hunter, S.D., Bertsch, D.L., Dingus, B.L., Fichtel, C.E., Hartman, R.C., Kanbach, G., Kniffen, D.A., Kwok, P.W., Lin, Y.C., Mattox, J.R., Mayer-Hasselwander, H.A., Michelson, P.F., von Montigny, C., Nolan, P.L., Schneid, E., Sreekumar, P., Thompson, D.J. **272**, 59

SIGMA soft γ -ray observations of 1E 1740.7–2942 in the spring of 1992: discovery of a sub-luminous state of emission and precise γ -ray position measurement

Cordier, B., Paul, J., Goldwurm, A., Laurent, P., Bouchet, L., Jourdain, E., Roques, J.P., Mandrou, P., Gilfanov, M., Churazov, E., Sunyaev, R., Khavenson, N., Dyachkov, A., Novikov, B., Kremnev, R., Kovtunen, V. **272**, 277

Overview of two-year observations with SIGMA on board GRANAT
Mandrou, P., Jourdain, E., Bassani, L., Vedrenne, G., Paul, J., Leray, J.-P., Lebrun, F., Ballet, J., Churazov, E., Gilfanov, M., Sunyaev, R., Bogomolov, A., Khavenson, N., Kuleshova, N., Tserenin, I., Sukhanov, K. **272**, 724 (97, 1)

The Compton Gamma Ray Observatory

Gehrels, N., Chipman, E., Kniffen, D.A. **272**, 724 (97, 5)

Overview of observations from BATSE on the Compton Observatory
Fishman, G.J., Meegan, C.A., Wilson, R.B., Paciesas, W.S., Pendleton, G.N., Harmon, B.A., Horack, J.M., Brock, M.N., Kouveliotou, C., Finger, M.H. **272**, 725 (97, 17)

Initial results from OSSE on the Compton Observatory

Johnson, W.N., Kurfess, J.D., Purcell, W.R., Matz, S.M., Ulmer, M.P., Strickman, M.S., Murphy, R.J., Grabelsky, D.A., Kinzer, R.L., Share, G.H., Cameron, R.A., Kroeger, R.A., Maisack, M., Jung, G.V., Jensen, C.M., Clayton, D.D., Leising, M.D., Grove, J.E., Dyer, C.S. **272**, 725 (97, 21)

Preliminary results from the High Resolution Gamma-ray and hard X-ray Spectrometer (HIREGS) long duration balloon flight in Antarctica

Feffer, P.T., Lin, R.P., Smith, D.M., Hurley, K.C., Kane, S.R., McBride, S., Primbsch, J.H., Youssefi, K., Zimmer, G., Pelling, R.M., Cotin, F., Lavigne, J.M., Rouaix, G., Slassi, S., Vedrenne, G., Pehl, R., Cork, C., Luke, P., Madden, N., Malone, D. **272**, 726 (97, 31)

Observations of gamma-ray burst spectra between 5 keV and 100 MeV

Barat, C. **272**, 727 (97, 43)

COMPTEL observations of gamma-ray bursts: time profiles and spectra

Collmar, W., Bennett, K., Bloemen, H., de Boer, H., Busetta, M., Connors, A., Diehl, R., Greiner, J., Hanlon, L., den Herder, J.W., Hermesen, W., Kuiper, L., Lichti, G.G., Lockwood, J., Macri, J., McConnell, M., Morris, D., Much, R., Ryan, J., Schönfelder, V., Stacy, J.G., Steinle, H., Strong, A.W., Swanenburg, B.N., Taylor, B.G., Varendorff, M., De Vries, C., Webber, W., Williams, O.R., Winkler, C. **272**, 728 (97, 71)

COMPTEL observations of gamma-ray bursts: imaging and localization

Connors, A., Aarts, H.J.M., Bennett, K., Bloemen, H., de Boer, H., Busetta, M., Collmar, W., Diehl, R., van Dijk, R., Hanlon, L., den Herder, J.W., Hermesen, W., Kippen, R.M., Kuiper, L., Klumper, A., Lichti, G.G., Lockwood, J., Macri, J., McConnell, M., Morris, D., Much, R., Ryan, J., Schönfelder, V., Simpson, G., Stacy, J.G., Steinle, H., Strong, A.W., Swanenburg, B., Taylor, B., Varendorff, M., de Vries, C., Webber, W., Williams, O.R., Winkler, C. **272**, 728 (97, 75)

COMPTEL detections of the quasars 3C 273 and 3C 279

Hermesen, W., Aarts, H.J.M., Bennett, K., Bloemen, H., de Boer, H., Collmar, W., Connors, A., Diehl, R., van Dijk, R., den Herder, J.W., Kuiper, L., Lichti, G.G., Lockwood, J.A., Macri, J., McConnell, M., Morris, D., Ryan, J.M., Schönfelder, V., Simpson, G., Steinle, H., Strong, A.W., Swanenburg, B.N., de Vries, C., Webber, W.R., Williams, W., Winkler, C. **272**, 730 (97, 97)

EGRET observations of 3C 273

von Montigny, C., Bertsch, D.L., Fichtel, C.E., Hartman, R.C., Hunter, S.D., Kanbach, G., Kniffen, D.A., Kwok, P.W., Lin, Y.C., Mattox, J.R., Mayer-Hasselwander, H.A., Michelson, P.F., Nolan, P.L., Pinkau, K., Rothermel, H., Schneid, E., Sommer, M., Sreekumar, P., Thompson, D.J. **272**, 730 (97, 101)

Hard X-ray observation of Centaurus A

Ubertini, P., Bazzano, A., Cocchi, M., La Padula, C., Sood, R. **272**, 730 (97, 105)

Identification of the sigma source near 3C 273: a new class of AGN?
Grindlay, J.E. **272**, 731 (97, 113)

On the diffuse galactic emission at 511 keV and 1809 keV

Prantzos, N. **272**, 731 (97, 119)

Diffuse Galactic annihilation radiation

Ramaty, R., Lingenfelter, R.E. **272**, 732 (97, 127)

The Crab and Galactic anticentre region observed by COMPTEL

Strong, A.W., Bennett, K., Bloemen, H., de Boer, H., Busetta, M., Collmar, W., Connors, A., Diehl, R., den Herder, J.W., Hermesen, W., Kuiper, L., Lockwood, J., Lichti, G.G., Macri, J., McConnell, M., Morris, D., Much, R., Ryan, J., Schönfelder, V., Simpson, G., Stacy, J.G., Steinle, H., Swanenburg, B.N., Varendorff, M., Winkler, C., de Vries, C. **272**, 732 (97, 133)

X- and gamma-rays from the Galactic centre

Skinner, G.K. **272**, 733 (97, 149)

High-resolution spectrum of the Galactic center

Mahoney, W.A., Ling, J.C., Wheaton, W.A. **272**, 733 (97, 159)

Two-year monitoring of persistent point sources in the Galactic center region at soft γ -ray energies with SIGMA

Cordier, B., Goldwurm, A., Leray, J.P., Paul, J., Bouchet, L., Mandrou, P., Niel, M., Roques, J.P., Churazov, E., Gilfanov, M., Sunyaev, R., Dyachkov, A., Khavenson, N., Kremnev, R., Sukhanov, K., Kuleshova, N. **272**, 734 (97, 177)

First results from COMPTEL measurement of the ^{26}Al 1.8 MeV gamma-ray line from the Galactic center region

Diehl, R., Bennett, K., Bloemen, H., de Boer, H., Busetta, M., Collmar, W., Connors, A., den Herder, J.W., de Vries, C., Hermesen, W., Knödseder, J., Kuiper, L., Lichti, G.G., Lockwood, J., Macri, J., McConnell, M., Morris, D., Much, R., Ryan, J., Schönfelder, V., Simpson, G., Stacy, J.G., Steinle, H., Strong, A.W., Swanenburg, B.N., Varendorff, M., von Ballmoos, P. **272**, 735 (97, 181)

High energy observation of the Galactic center region 511 keV and ^{26}Al lines with HEXAGONE

Durouchoux, P., Wallyn, P., Chapuis, C., Matteson, J., Bowman, B., Pelling, M., Peterson, L., Vedrenne, G., von Ballmoos, P., Malet, I., Niel, M., Lin, R., Feffer, P., Smith, D., Hurley, K. **272**, 735 (97, 185)

Search for the compact 511 keV radiation source in the Galactic center region with SIGMA

Lei, F., Roques, J.P., Mandrou, P., Vedrenne, G., Ballet, J., Cordier, B., Lebrun, F., Leray, J.P., Churazov, E., Gilfanov, M., Sunyaev, R., Bogomolov, A., Khavenson, N., Kuleshova, N., Tserenin, I., Sukhanov, K. **272**, 735 (97, 189)

VLA observations of the hard X-ray sources 1E 1740.7–2942 and GRS 1758–258

Mirabel, I.F., Rodríguez, L.F., Cordier, B., Paul, J., Lebrun, F. **272**, 735 (97, 193)

HEXAGONE observation of the Galactic center gamma-ray continuum

Smith, D.M., Lin, R.P., Feffer, P., Hurley, K., Slassi, S., von Ballmoos, P., Malet, I., Niel, M., Vedrenne, D., Matteson, J., Bowman, H.B., Pelling, R.M., Peterson, L.E., Durouchoux, P., Wallyn, P., Chapuis, C., Cork, C., Landis, D., Luke, P., Madden, N., Malone, D., Pehl, R., Pollard, M. **272**, 736 (97, 199)

Preliminary results from COMPTEL on a search for gamma-ray line emission from SN 1991T

Lichti, G.G., Bennett, K., Bloemen, H., de Boer, H., Busetta, M., Collmar, W., Connors, A., Diehl, R., van Dijk, R., den Herder, J.W., Hermesen, W., Kuiper, L., Lockwood, J., Macri, J., McConnell, M., Morris, D., Much, R., Ryan, J., Schönfelder, V., Simpson, G., Stacy, J.G., Steinle, H., Strong, A.W., Swanenburg, B.N., Varendorff, M., de Vries, C., Winkler, C. **272**, 736 (97, 215)

SIGMA observations of bright X-ray binaries

Laurent, P., Claret, A., Cordier, B., Lebrun, F., Denis, M., Bouchet, L., Lei, F., Barret, D., Churazov, E., Gilfanov, M., Sunyaev, R., Diachkov, A., Khavenson, N., Kremnev, R., Sukhanov, K., Kuleshova, N. **272**, 737 (97, 225)

SIGMA observations of two X-ray transients: KS 1731-260 and TrA X-1

Barret, D., Mandrou, P., Roques, J.P., Denis, M., Lebrun, F., Claret, A., Goldwurm, A., Laurent, P., Churazov, E., Gilfanov, M., Sunyaev, R., Bogomolov, A., Khavenson, N., Kuleshova, N., Tserenin, I., Sukhanov, K. **272**, 738 (97, 241)

Studies of hard X-ray source variability using BATSE

Paciesas, W.S., Harmon, B.A., Pendleton, G.N., Finger, M.H., Fishman, G.J., Meegan, C.A., Rubin, B.C., Wilson, R.B. **272**, 739 (97, 253)

Observations of X-ray transient source GS 2023+338 with the TTM coded mask telescope

Pan, H.C., in't Zand, J.J.M., Skinner, G.K., Borozdin, K.N., Gilfanov, M.R., Sunyaev, R. **272**, 740 (97, 273)

Observations of black hole candidates with GRANAT

Grebenev, S., Sunyaev, R., Pavlinsky, M., Churazov, E., Gilfanov, M., Dyachkov, A., Khavenson, N., Sukhanov, K., Laurent, P., Ballet, J., Claret, A., Cordier, B., Jourdain, E., Niel, M., Pelaez, F., Schmitz-Fraysse, M.C. **272**, 740 (97, 281)

Nova Muscae 1991, an exciting dwarf X-ray transient

Lund, N. **272**, 741 (97, 289)

SIGMA observations of the X-ray nova in Musca

Goldwurm, A., Ballet, J., Laurent, P., Paul, J., Jourdain, E., Bouchet, L., Mandrou, P., Roques, J.P., Churazov, E., Gilfanov, M., Sunyaev, R., Dyachkov, A., Khavenson, N., Kremnev, R., Sukhanov, K., Kuleshova, N. **272**, 741 (97, 293)

The spectra of Nova Muscae 1991 between 3 keV and 1 MeV observed with GRANAT

Gilfanov, M., Churazov, E., Sunyaev, R., Grebenev, S., Pavlinsky, M., Dyachkov, A., Kovtunen, V., Kremnev, R., Goldwurm, A., Ballet, J., Laurent, P., Paul, J., Jourdain, E., Schmitz-Fraysse, M.C., Roques, J.P., Mandrou, P. **272**, 741 (97, 303)

COMPTEL observations of the Crab and Vela pulsars

Bennett, K., Aarts, H., Bloemen, H., Buccheri, R., Busetta, M., Collmar, W., Connors, A., Carramiñana, A., Cobbly, T., Diehl, R., de Boer, H., den Herder, J.W., Hermesen, W., Kuiper, L., Lockwood, J., Lichti, G.G., Macri, J., McConnell, M., Morris, D., Much, R., Ryan, J., Schönfelder, V., Simpson, G., Stacy, J.G., Steinle, H., Strong, A., Swanenburg, B.N., Taylor, B., Varendorff, M., de Vries, C., Webber, W., Winkler, C. **272**, 742 (97, 317)

Phase distribution of the 0.44 MeV feature in the Crab pulsar spectrum

Olive, J.F., Agrinier, B., Barouch, E., Comte, R., Costa, E., Cusumano, G.C., Gerardi, G., Lemoine, D., Mandrou, P., Masnou, J.L., Massaro, E., Matt, G., Mineo, T., Niel, M., Parlier, B., Sacco, B., Salvati, M., Scarsi, L. **272**, 742 (97, 321)

Observation of the Vela gamma-ray pulsar with the GAMMA-1 telescope

Olive, J.-F., Leikov, N., Akimov, V., Afanassyev, V., Barouch, E., Bazer-Bachi, R., Blochintsev, I., Buczkowska, A., Chuikin, E., Fradkin, M., Galper, A.M., Grenier, I.A., Gros, M., Grygorczuk, J.,

Juchniewicz, J., Lavigne, J.-M., McCulloch, P., Nesterov, V., Ozerov, Y., Rudko, V., Topchiev, N., Zemskov, V. **272**, 743 (97, 325)

Discovery of the high energy emission from the transient X-ray pulsar GRS 0834-430

Denis, M., Roques, J.P., Barret, D., Lei, F., Lebrun, F., Claret, A., Goldwurm, A., Leray, J.P., Churazov, E., Gilfanov, M., Sunyaev, R., Bogomolov, A., Khavenson, N., Kuleshova, N., Tserenin, I., Sukhanov, K. **272**, 743 (97, 333)

Detection of a long-duration solar gamma-ray flare on June 11, 1991 with EGRET on COMPTEL-GRO

Kanbach, G., Bertsch, D.L., Fichtel, C.E., Hartman, R.C., Hunter, S.D., Kniffen, D.A., Kwok, P.W., Lin, Y.C., Mattox, J.R., Mayer-Hasselwander, H.A., Michelson, P.F., von Montigny, C., Nolan, P.L., Pinkau, K., Rothmel, H., Schneid, E., Sommer, M., Sreekumar, P., Thompson, D.J. **272**, 744 (97, 349)

Imaging with INTEGRAL

Dean, A.J. **272**, 745 (97, 361)

SAX overview

Scarsi, L. **272**, 745 (97, 371)

Gamma-ray imaging with germanium detectors

Mahoney, W.A., Callas, J.L., Lin, J.C., Radocinski, R.G., Skelton, R.T., Varnell, L.S., Wheaton, W.A. **272**, 746 (97, 385)

Possible applications of CdTe detectors to high-energy astronomy

Caroli, E., Baldazzi, G., Bassani, L., Di Cocco, G., Dusi, W., Malaguti, G., Rossi, M., Spizzichino, A., Stephen, J.B., Trifoglio, M. **272**, 746 (97, 393)

Monte Carlo simulation of hexagonal geometry for the International Gamma-Ray Astrophysics Laboratory

Sanchez, F., Uso, J.L., Reglero, V., Ferrero, J.L., Ruiz, J.A. **272**, 747 (97, 401)

The radio state of extragalactic γ -ray sources detected by CGRO

Reich, W., Steppe, H., Schlickeiser, R., Reich, P., Pohl, M., Reuter, H.P., Kanbach, G., Schönfelder, V. **273**, 65

Detection of ^{57}Co γ -rays from SN 1987A and prospect of X-ray observations of the pulsar with ASUKA

Kumagai, S., Nomoto, K., Shigeyama, T., Hashimoto, M., Itoh, M. **273**, 153

Geminga: relative phases of the X-ray and γ -ray pulses

Becker, W., Brazier, K.T.S., Trümper, J. **273**, 421

Search for TeV gamma-rays from Geminga

Akerlof, C.W., Breslin, A.C., Cawley, M.F., Chantell, M., Fegan, D.J., Fennell, S., Gaidos, J.A., Hagan, J., Hillas, A.M., Kerrick, A.D., Lamb, R.C., Lawrence, M.A., Lewis, D.A., Meyer, D.I., Mohanty, G., O'Flaherty, K.S., Punch, M., Reynolds, P.T., Rovero, A.C., Schubnell, M.S., Sembroski, G., Weekes, T.C., West, M., Whittaker, T., Wilson, C. **274**, L17

The soft γ -ray source 1E 1740.7-2942 revisited: SIGMA observation of a new transient activity beyond 200 keV

Cordier, B., Paul, J., Ballet, J., Goldwurm, A., Bouchet, L., Roques, J.P., Mandrou, P., Vedrenne, G., Churazov, E., Gilfanov, M., Sunyaev, R., Novikov, B., Chulkov, I., Kuleshova, N., Tserenin, I., Sheikhet, A. **275**, L1

Coded masks with two spatial scales

Skinner, G.K., Grindlay, J.E. **276**, 673

Precise measurements of the right ascension of the Geminga pulsar using COS-B data

Cheng, L.X., Li, T.P., Ma, Y.Q., Sun, X.J., Wu, M. **277**, L13

Photon spectrum and period evolution of GX 1+4 as observed at hard X-ray energies by SIGMA

Laurent, P., Salotti, L., Paul, J., Lebrun, F., Denis, M., Barret, D., Jourdain, E., Roques, J.P., Churazov, E., Gilfanov, M., Sunyaev, R., Diachkov, A., Khavenson, N., Novikov, B., Chulkov, I., Kuznetsov, A. **278**, 444

Gamma rays: theory

- Galactic diffusion and wind models of cosmic-ray transport. I. Insight from CR composition studies and γ -ray observations
Bloemen, J.B.G.M., Dogiel, V.A., Dorman, V.L., Ptuskin, V.S. **267**, 372
- TeV gamma ray burst from SN 1987 A
Apparao, K.M.V. **268**, 607
- The proton blazar
Mannheim, K. **269**, 67
- A model for TeV gamma-ray emission from AM Herculis
Kaul, C.L., Kaul, R.K., Bhat, C.L. **272**, 501
- The escape of 100 MeV photons from cosmological gamma-ray bursts
Fenimore, E.E., Epstein, R.I., Ho, C. **272**, 727 (**97**, 59)
- Gamma-ray bursts from relativistic jets in cocooned active galactic nuclei and gravitational lensing tests of the cosmological origin
McBreen, B., Plunkett, S., Metcalfe, L. **272**, 729 (**97**, 81)
- Supernova-like mechanism for cosmic-ray origin in AGN
Dokuchaev, V.I., Karakula, S., Tkaczyk, W. **272**, 731 (**97**, 109)
- Gamma-rays from point sources and a universal energy spectrum
Tomozawa, Y. **272**, 731 (**97**, 117)
- On the diffuse galactic emission at 511 keV and 1809 keV
Prantzos, N. **272**, 731 (**97**, 119)
- Diffuse Galactic annihilation radiation
Ramaty, R., Lingenfelter, R.E. **272**, 732 (**97**, 127)
- A two-dimensional thin hot plasma model for the distribution of ^{26}Al γ -rays
Malet, I., Montmerle, T., von Ballmoos, P. **272**, 732 (**97**, 137)
- High energy gamma-ray emission from open clusters
Polcaro, V.F., Brinkmann, W., Giovannelli, F., Manchanda, R.K., Norci, L., Persi, P., Rossi, C. **272**, 732 (**97**, 139)
- Massive stars as Galactic producers of ^{26}Al
Signore, M., Dupraz, C. **272**, 733 (**97**, 141)
- Diffuse Galactic low energy gamma-ray continuum emission
Skibo, J.G., Ramaty, R. **272**, 733 (**97**, 145)
- An analysis of nuclear γ -ray line profiles from SN 1987 A
Grant, K.J., Dean, A.J. **272**, 736 (**97**, 211)
- Gamma ray constraints on the Galactic supernova rate
Hartmann, D., The, L.-S., Clayton, D.D., Leising, M., Mathews, G., Woosley, S.E. **272**, 737 (**97**, 219)
- Gamma-ray light curves and spectra for SN Ia
Höflich, P., Müller, E., Khokhlov, A. **272**, 737 (**97**, 221)
- Theoretical prediction of gamma-rays from SN 1991 T
Shigeyama, T., Kumagai, S., Yamaoka, H., Nomoto, K., Thielemann, F.-K. **272**, 737 (**97**, 223)
- Mechanisms of hard X-ray emission from accreting neutron stars
Kluźniak, W. **272**, 739 (**97**, 265)
- A model of the Cygnus X-3 system in the gamma-rays region
Moskalenko, I.V., Karakula, S., Tkaczyk, W. **272**, 739 (**97**, 269)
- Hard emission from classical novae
Leising, M.D. **272**, 741 (**97**, 299)
- Gamma rays from "hidden" millisecond pulsars
Tavani, M. **272**, 742 (**97**, 313)
- The radio state of extragalactic γ -ray sources detected by CGRO
Reich, W., Steppe, H., Schlickeiser, R., Reich, P., Pohl, M., Reuter, H.P., Kanbach, G., Schönfelder, V. **273**, 65
- SN 1993J: explosion of a massive cool supergiant with a small envelope mass?
Höflich, P., Langer, N., Duschinger, M. **275**, L29
- X-ray and gamma-ray emission from active galactic nuclei
Cheng, K.S., Yu, K.N., Ding, K.Y. **275**, 53

Can high-energy γ -ray photons escape from the radiation field emitted by an accretion disk?

Bednarek, W. **278**, 307

Magnetic fields and the cosmic ray e/p ratio. Clues from gamma-ray observations of the Magellanic Clouds

Pohl, M. **279**, L17

Gravitation

Formation of double neutron star systems and asymmetric supernova explosions

Yamaoka, H., Shigeyama, T., Nomoto, K. **267**, 433

Efficiency of gravitational radiation from axisymmetric and 3 D stellar collapse. I. Polytropic case

Bonazzola, S., Marck, J.A. **267**, 623

Lensing effects of gravitational radiation near celestial sources

Labeyrie, A. **268**, 823

Doppler tracking of spacecraft with multi-frequency links

Bertotti, B., Comoretto, G., Iess, L. **269**, 608

The nonlinear stage of evolution of spherically symmetric disturbances in an Einstein-de Sitter universe: explosive and implosive modes

Kovalenko, I.G., Sokolov, P.A. **270**, 1

Computational issues connected with 3D N -body simulations

Pfenniger, D., Friedli, D. **270**, 573

Upper bounds on the neutrino burst from collapse of a neutron star into a black hole

Gourgoulhon, E., Haensel, P. **271**, 187

Condensations in a self-gravitating flow: from gravito-acoustic waves to bound structures

Chantry, P., Grappin, R., Léorat, J. **272**, 555

The Nordtvedt effect in the Trojan asteroids

Orellana, R.B., Vucetich, H. **273**, 313

Relativistic theory of radiative transfer: time-dependent radiation moment equations

Park, M.-G. **274**, 642

On the Maxwellian alternative to the galactic dark matter problem

Sivaram, C. **275**, 37

Interaction of charged particles with gravitational waves of various polarizations and directions of propagation

Kleidis, K., Varvoglis, H., Papadopoulos, D. **275**, 309

Axisymmetric rotating relativistic bodies: a new numerical approach for "exact" solutions

Bonazzola, S., Gourgoulhon, E., Salgado, M., Marck, J.A. **278**, 421

Time evolution of a density discontinuity in the one-dimensional gravitational gas

Muriel, A., Feix, M., Jirkovsky, L. **279**, 341

History and philosophy of astronomy

CPC2 – the Second Cape Photographic Catalogue. I. History, observations and plate measurements

de Vegt, C., Murray, C.A., Zacharias, N., Nicholson, W., Penston, M.J., Clube, S.V.M. **272**, 755 (**97**, 985)

A forgotten episode of the η Carinae light curve in 1860–1865

Polcaro, V.F., Viotti, R. **274**, 807

Hydrodynamics

Modelling time variable and total eclipses of the millisecond pulsar PSR 1744-24A

Tavani, M., Brookshaw, L. **267**, L1

Stability analysis of colliding winds in a double star system

Dgani, R., Walder, R., Nussbaumer, H. **267**, 155

The nature of the angular momentum of galaxies: the hydrodynamical theory

Chernin, A.D. **267**, 315

- The importance of plasma viscosity on X-ray line diagnostics of solar flares
Peres, G., Reale, F. **267**, 566
- The effect of convection on two temperature soft photon Comptonized accretion disks
Meirelles Filho, C. **267**, 651
- Secular evolution of isolated barred galaxies. I. Gravitational coupling between stellar bars and interstellar medium
Friedli, D., Benz, W. **268**, 65
- Does artificial viscosity destroy prompt type-II supernova explosions?
Janka, H.-T., Zwerger, T., Mönchmeyer, R. **268**, 360
- On the capabilities and limits of smoothed particle hydrodynamics
Steinmetz, M., Müller, E. **268**, 391
- Two-dimensional models for solar and stellar winds: hydrodynamic effects
Lima, J.J.G., Priest, E.R. **268**, 641
- Formation and evolution of cluster cooling flows
Friça, A.C.S. **269**, 145
- Molecular clouds as tracers of the dynamics in the central region of the galaxy
von Linden, S., Duschl, W.J., Biermann, P.L. **269**, 169
- Light curves of Type Ia supernova models with different explosion mechanisms
Khokhlov, A., Müller, E., Höflich, P. **270**, 223
- Hydrodynamic study of supernova 1987A: near the peak luminosity
Urobin, V. **270**, 249
- 3D stability analysis of colliding winds in a double star system
Dgani, R. **271**, 527
- Simulations of the evolution of galaxy clusters. II. Dynamics of the intra-cluster gas
Schindler, S., Müller, E. **272**, 137
- A comparison between SPH and PPM: simulations of stellar collisions
Davies, M.B., Ruffert, M., Benz, W., Müller, E. **272**, 430
- Dynamics of the decay of confined stellar X-ray flares
Reale, F., Serio, S., Peres, G. **272**, 486
- Condensations in a self-gravitating flow: from gravito-acoustic waves to bound structures
Chantry, P., Grappin, R., Léorat, J. **272**, 555
- A spectral code for X-ray spectra of supernova remnants
Kastra, J.S., Jansen, F.A. **272**, 754 (**97**, 873)
- Non-equilibrium radiative transfer in supernova theory: models of linear type II supernovae
Blinnikov, S.I., Bartunov, O.S. **273**, 106
- Coronal structures of α -disk models
Tschäpe, R., Kley, W. **273**, 169
- Formation of multiple protostellar systems
Klapp, J., Sigalotti, L.D.G., de Felice, F. **273**, 175
- Dynamic artificial opacity for flux limited diffusion in hydrodynamics
Dgani, R. **273**, 338
- Radiation hydrodynamics in atmospheres of long-period variables
Feuchtinger, M.U., Dorfi, E.A., Höfner, S. **273**, 513
- On the interactions of hydrodynamic shock waves in stellar atmospheres
Fleck, B., Schmitz, F. **273**, 671
- Relativistic theory of radiative transfer: time-dependent radiation moment equations
Park, M.-G. **274**, 642
- A self-consistent solution for an accretion disc structure around a rapidly rotating non-magnetized star
Bisnovatyi-Kogan, G.S. **274**, 796
- X-ray emission from the collision of the ejecta with the ring nebula around SN 1987A
Suzuki, T., Shigeyama, T., Nomoto, K. **274**, 883
- Axisymmetric accretion flow past large, gravitating bodies
Shankar, A., Kley, W., Burkert, A. **274**, 955
- Molecular clouds close to the Galactic Center
Biermann, P.L., Duschl, W.J., von Linden, S. **275**, 153
- A-effect and differential rotation in stellar convection zones
Kichatinov, L.L., Rüdiger, G. **276**, 96
- On the radial velocity variations in Be stars
Savonije, G.J., Heemskerk, M.H.M. **276**, 409
- A unified stellar jet/molecular outflow model
Raga, A.C., Cantó, J., Calvet, N., Rodríguez, L.F., Torrelles, J.M. **276**, 539
- Modelling non-axisymmetric bow shocks
Bandiera, R. **276**, 648
- On high-temperature halos around planetary nebulae
Marten, H. **277**, L9
- Radiation-hydrodynamic waves in an optically non-grey atmosphere
Zhugzhda, Y.D., Dzhalilov, N.S., Staude, J. **278**, L9
- Modification of the nebular environment in symbiotic systems due to colliding winds
Nussbaumer, H., Walder, R. **278**, 209
- Molecular outflows entrained by jet bowshocks
Raga, A., Cabrit, S. **278**, 267
- Phases and amplitudes of acoustic-gravity waves. II. The effects of reflection
Marmolino, C., Severino, G., Deubner, F.-L., Fleck, B. **278**, 617
- An $\alpha\Omega$ -model of the solar differential rotation
Küker, M., Rüdiger, G., Kichatinov, L.L. **279**, L1
- A study of three-dimensional turbulent compressible convection in a deep atmosphere at various Prandtl numbers
Singh, H.P., Chan, K.L. **279**, 107
- On the numerical calculation of hydrodynamic shock waves in atmospheres by an FCT method
Schmitz, F., Fleck, B. **279**, 499
- Collisions between a white dwarf and a main-sequence star. III. Simulations including the white dwarf surface
Ruffert, M. **280**, 141
- A generalized version of the Rankine-Hugoniot relations including ionization, dissociation, radiation and related phenomena
Nieuwenhuijzen, H., de Jager, C., Cuntz, M., Lobel, A., Achmad, L. **280**, 195
- ### Infrared: galaxies
- A new test for cosmic structure based on the anisotropy field of 60- μ m extragalactic IRAS sources
Fabbri, R., Natale, V. **267**, L15
- Erratum: Identification of IRAS point sources in Scorpio-Centaurus-Lupus
Carballo, R., Wesselius, P.R., Whittet, D.C.B. **268**, 832
- Results of the ESO-SEST Key Programme: CO in the Magellanic Clouds. II. CO in the SW region of the Small Magellanic Cloud
Rubio, M., Lequeux, J., Boulanger, F., Booth, R.S., Garay, G., de Graauw, T., Israël, F.P., Johansson, L.E.B., Kutner, M.L., Nyman, L.-Å. **271**, 1
- Results of the ESO-SEST Key Programme: CO in the Magellanic Clouds. III. Molecular gas in the Small Magellanic Cloud
Rubio, M., Lequeux, J., Boulanger, F. **271**, 9
- Distribution of molecular gas in the primeval galaxy IRAS F 10214+4724
Radford, S.J.E., Brown, R.L., Vanden Bout, P.A. **271**, L21

Rotation of stars and gas in M 82

McKeith, C.D., Castles, J., Greve, A., Downes, D. **272**, 98

Isophote twists in the nuclear regions of barred spiral galaxies

Shaw, M.A., Combes, F., Axon, D.J., Wright, G.S. **273**, 31

Variability and emission mechanisms in Seyfert 1 galaxies: a near-infrared outburst in NGC 4051

Salvati, M., Hunt, L.K., Calamai, G., Del Zanna, G., Giannuzzo, E., Kidger, M., Mannucci, F., Stanga, R.M., Wamsteker, W. **274**, 174

Identification and morphology of optically faint extragalactic IRAS sources

Klaas, U., Elsässer, H. **274**, 1015 (**99**, 71)

Effects of interactions on the nuclear near-infrared properties of spiral galaxies

Giuricin, G., Biviano, A., Girardi, M., Mardirossian, F., Mezzetti, M. **275**, 390

Tracing the roots of interstellar mid-infrared emission

Jenniskens, P., Désert, F.-X. **275**, 549

Optical positions and 327 MHz flux-densities of UGC galaxies in selected Westerbork fields

Oly, C., Israel, F.P. **276**, 327 (**100**, 263)

Infrared and optical photometry of galaxies in four clusters and of a sample of early-type galaxies

Boisson, C., Durret, F., Balkowski, C., Proust, D. **277**, 363 (**100**, 583)

Near-infrared images of IRAS galaxies

Zenner, S., Lenzen, R. **279**, 337 (**101**, 363)

The emission spectra of radioweak quasars. I. The far-infrared emission

Niemeyer, M., Biermann, P.L. **279**, 393

IRAS CPC observations of galaxies. I. Catalog and atlas

van Driel, W., de Graauw, T., de Jong, T., Wesselius, P.R. **279**, 681 (**101**, 207)

A sample of optically faint infrared luminous galaxies

Klaas, U., Elsässer, H. **280**, 76

Infrared: general

Highly-excited levels of Fe I obtained from laboratory and solar Fourier transform and grating spectra. I. Energy levels

Nave, G., Johansson, S. **274**, 961

N-band observations of comet Austin 1989c1: first images with the C10 μ camera

Lagage, P.O., Merlin, P., Remy, S., Sibille, F. **275**, 345

IRAS pointed observations data processing

Assendorp, R., Wesselius, P.R. **277**, 361 (**100**, 473)

Highly-excited levels of Fe I obtained from laboratory and solar Fourier transform and grating spectra. II. Laboratory and solar identifications

Nave, G., Johansson, S. **280**, 346 (**102**, 269)

Infrared: interstellar: continuumUnidentified infrared emission bands: models for the carriers of the satellites of the 3.3 μ m band

Talbi, D., Pauzat, F., Ellinger, Y. **268**, 805

The 2140 cm^{-1} band of frozen CO: laboratory experiments and astrophysical applications

Palumbo, M.E., Strazzulla, G. **269**, 568

Classification and statistical properties of galactic H₂O masers

Palagi, F., Cesaroni, R., Comoretto, G., Felli, M., Natale, V. **279**, 681 (**101**, 153)

Porous grains and polarization of light: the silicate features

Henning, T., Stognienko, R. **280**, 609

Dust coagulation in dense molecular clouds: the formation of fluffy aggregates

Ossenkopf, V. **280**, 617

Infrared: interstellar: lines

Infrared and submillimetric emission lines from the envelopes of dark clouds

Le Bourlot, J., Pineau des Forêts, G., Roueff, E., Flower, D.R. **267**, 233

A multi-transition study of carbon monoxide in the Orion A molecular cloud. II. C¹⁸O

Dutrey, A., Duvert, G., Castets, A., Langer, W.D., Bally, J., Wilson, R.W. **270**, 468

Modeling of IR emission of interstellar clouds. II. Self-consistent models of individual nearby clouds

Bernard, J.P., Boulanger, F., Puget, J.L. **277**, 609

Near-IR spectroscopy and imaging photometry of M 1–16: bipolar H₂ jets in a post-AGB transition object

Aspin, C., Schwarz, H.E., Smith, M.G., Corradi, R.L.M., Mountaint, C.M., Wright, G.S., Ramsay, S.K., Robertson, D., Beard, S.M., Pickup, D.A., Geballe, T.R., Bridger, A., Laird, D., Montgomery, D., Glendinning, R., Pentland, G., Griffin, J.L., Aycock, J. **278**, 255

Anatomy of the Sagittarius complex. III. Morphology and characteristics of the Sgr B2 giant molecular cloud

Gordon, M.A., Berkemann, U., Mezger, P.G., Zylka, R., Haslam, C.G.T., Kreysa, E., Sievers, A., Lemke, R. **280**, 208

Physical conditions for far-infrared laser emission from dense OH maser regions

Doel, R.C., Gray, M.D., Field, D., Jones, K.N. **280**, 592

Infrared: solar system

Thermal emission from a rough surface: ray optics approach

Jämsä, S., Peltoniemi, J.I., Lumme, K. **271**, 319

N-band observations of comet Austin 1989c1: first images with the C10 μ camera

Lagage, P.O., Merlin, P., Remy, S., Sibille, F. **275**, 345

Infrared lines as probes of solar magnetic features. VI. The thermal-magnetic relation and Wilson depression of a simple sunspot

Solanki, S.K., Walther, U., Livingston, W. **277**, 639

Cometary dust trails and meteor storms

Kresák, L. **279**, 646

Infrared: stars

Candidate OH/IR stars in the outer parts of our Galaxy

Blommaert, J.A.D.L., van der Veen, W.E.C.J., Habing, H.J. **267**, 39

Near-infrared photometry and spectrophotometry of two unusual novae

Kidger, M.R., Martínez-Roger, C. **267**, 111

Characterization and proportion of very cold C-rich circumstellar envelopes

Omont, A., Loup, C., Forveille, T., te Lintel Hekkert, P., Habing, H.J., Sivagnanam, P. **267**, 515

IRAS colours of Li-rich giants

Gregorio-Hetem, J., Castilho, B.V., Barbuy, B. **268**, L25

Searching for embedded clusters in the Cepheus-Cassiopeia region

Pásztor, L., Tóth, L.V., Balázs, L.G. **268**, 108

High velocity outflow from η Carinae

Damineli Neto, A., Viotti, R., Baratta, G.B., de Araujo, F.X. **268**, 183

Erratum: Identification of IRAS point sources in Scorpio-Centaurus-Lupus

Carballo, R., Wesselius, P.R., Whittet, D.C.B. **268**, 832

- Sub-diffraction-limited infrared speckle observations of Z Canis Majoris, a 0^h10 variable binary star
Haas, M., Christou, J.C., Zinnecker, H., Ridgway, S.T., Leinert, C. **269**, 282
- Recent phase changes in X Persei: optical, infrared and X-ray behaviour
Roche, P., Coe, M.J., Fabregat, J., McHardy, I.M., Norton, A.J., Percy, J.R., Reglero, V., Reynolds, A., Unger, S.J. **270**, 122
- Detection of a 400 AU disk-like structure surrounding the young stellar object Z CMa
Malbet, F., Rigaut, F., Bertout, C., Léna, P. **271**, L9
- S stars: infrared colors, technetium, and binarity
Jorissen, A., Frayer, D.T., Johnson, H.R., Mayor, M., Smith, V.V. **271**, 463
- Infrared emission lines in τ Scorpii: a pole-on Be star?
Waters, L.B.F.M., Marlborough, J.M., Geballe, T.R., Oosterbroek, T., Zaai, P. **272**, L9
- Star formation in L 1251: distance and members
Kun, M., Prusti, T. **272**, 235
- Infrared observations of possible hot post-asymptotic giant branch stars
Conlon, E.S., Dufton, P.L., Keenan, F.P., McCausland, R.J.H., Little, J.E. **272**, 243
- Infrared observations of atomic hydrogen lines in ζ Puppis
Käufl, H.U. **272**, 452
- Infrared and optical studies of Be star/X-ray binaries
Coe, M.J., Everall, C., Fabregat, J., Gorrod, M.J., Norton, A.J., Reglero, V., Roche, P., Unger, S.J. **272**, 738 (97, 245)
- Multi-wavelength observations of phase changes in X Persei
Roche, P., Coe, M.J., Everall, C., Fabregat, J., Norton, A.J., Reglero, V., Unger, S.J. **272**, 740 (97, 277)
- Infrared photometry and radial velocities of field RR Lyraes
Fernley, J.A., Skillen, I., Burki, G. **272**, 753 (97, 815)
- An embedded cluster of stars at the Rosette GMC CO peak
Block, D.L., Geballe, T.R., Dyson, J.E. **273**, L41
- On the nature of the stellar cluster at the Rosette GMC CO peak
Hanson, M.M., Geballe, T.R., Conti, P.S., Block, D.L. **273**, L44
- IRAS 17150-3224: a young, optically bipolar, proto-planetary nebula
Hu, J.Y., Slijkhuis, S., Nguyen-Q-Rieu, de Jong, T. **273**, 185
- Infrared photometry and spectrophotometry of SN 1987 A. II. November 1987 to March 1991 observations
Bouchet, P., Danziger, I.J. **273**, 451
- Intrinsic IR colours of normal B-type stars using the Geneva visual and ESO IR photometric systems
Dougherty, S.M., Cramer, N., van Kerkwijk, M.H., Taylor, A.R., Waters, L.B.F.M. **273**, 503
- Circumstellar dust in Mira variables and the mass loss mechanisms
Anandarao, B.G., Pottasch, S.R., Vaidya, D.B. **273**, 570
- Identification of 106 new infrared carbon stars in the IRAS Point Source Catalog: near-infrared photometry and their space distribution in the Galaxy
Guglielmo, F., Epchtein, N., Le Bertre, T., Fouqué, P., Hron, J., Kerschbaum, F., Lépine, J.R.D. **274**, 1015 (99, 31)
- A second phase of star formation in the Serpens core
Casali, M.M., Eiroa, C., Duncan, W.D. **275**, 195
- CO and HCN observations of circumstellar envelopes. A catalogue. Mass loss rates and distributions
Loup, C., Forveille, T., Omont, A., Paul, J.F. **275**, 354 (99, 291)
- Search for hydroxyl in southern cold IRAS sources
Silva, A.M., Azcárate, I.N., Pöppel, W.G.L., Likkel, L. **275**, 510
- Very small dust grains in the circumstellar environment of Herbig Ae/Be stars
Natta, A., Prusti, T., Krügel, E. **275**, 527
- Analysis of IRAS stellar sources in the α Persei region
Trullols, E., Jordi, C. **276**, 328 (100, 311)
- A systematic study of IRAS selected proto-planetary nebula candidates. I. Selection of the sample and observations of the southern objects
Hu, J.Y., Slijkhuis, S., de Jong, T., Jiang, B.W. **276**, 330 (100, 413)
- Carbon stars with excess emission at 60 μ m wavelength
Zuckerman, B. **276**, 367
- The cloudy circumstellar dust shell of WW Vulpeculae revisited
Friedemann, C., Reimann, H.-G., Gürtler, J., Tóth, V. **277**, 184
- A systematic search for young binaries in Taurus
Leinert, C., Zinnecker, H., Weitzel, N., Christou, J., Ridgway, S.T., Jameson, R., Haas, M., Lenzen, R. **278**, 129
- A model of the Galaxy for predicting star counts in the infrared
Ortiz, R., Lépine, J.R.D. **279**, 90
- Infrared photometry of the young stellar objects V 346 Normae and Re 13
Prusti, T., Bontekoe, T.R., Chiar, J.E., Kester, D.J.M., Whittet, D.C.B. **279**, 163
- The chemically peculiar star HD 37808
Leone, F., Catalano, F.A., Manfrè, M. **279**, 167
- The influence of ice-coated grains on protostellar spectra
Preibisch, T., Ossenkopf, V., Yorke, H.W., Henning, T. **279**, 577
- Near-infrared and sub-millimeter photometry of carbon stars
Groenewegen, M.A.T., de Jong, T., Baas, F. **279**, 676 (101, 513)
- The exciting sources of Herbig-Haro objects. I. A catalogue of 1-20 μ m observations
Molinari, S., Liseau, R., Lorenzetti, D. **279**, 680 (101, 59)
- Classification and statistical properties of galactic H₂O masers
Palagi, F., Cesaroni, R., Comoretto, G., Felli, M., Natale, V. **279**, 681 (101, 153)
- Far-infrared properties of late-type dwarfs. Infrared fluxes of K and M dwarfs
Mathioudakis, M., Doyle, J.G. **280**, 181
- The 1.5-1.7 μ m spectrum of cool stars: line identifications, indices for spectral classification and the stellar content of the Seyfert galaxy NGC 1068
Origlia, L., Moorwood, A.F.M., Oliva, E. **280**, 536
- Infrared and SiO maser observations of OH/IR stars
Nyman, L.-Å., Hall, P.J., Le Bertre, T. **280**, 551
- ### Instabilities
- The fragmentation of molecular clouds: critical (Jeans) mass in the vicinity of thermal instability and influence of visible extinction variations
Renard, M., Chièze, J.P. **267**, 549
- A kinematical study of the jet GGD 34
Gómez de Castro, A., Miranda, L.F., Eiroa, C. **267**, 559
- On the interchange instability of solar magnetic flux tubes. I. The influence of magnetic tension and internal gas pressure
Büntte, M., Steiner, O., Pizzo, V.J. **268**, 299
- Investigation of astrophysical filaments and determination of their size
Rosso, F., Pelletier, G. **270**, 416
- The interchange instability of stellar magnetic flux tubes
Büntte, M., Saar, S.H. **271**, 167
- 3D stability analysis of colliding winds in a double star system
Dgani, R. **271**, 527
- Complex instability
Zachilas, L.G. **272**, 750 (97, 549)
- On the interchange instability of solar magnetic flux tubes. II. The influence of energy transport effects
Büntte, M., Hasan, S., Kalkofen, W. **273**, 287

Electromagnetic stability of electron-positron beams

Achatz, U., Schlickeiser, R. **274**, 165

Magnetic buoyancy in accretion disks

Torkelson, U. **274**, 675

The effect of magnetic fields on the macroscopic instability of the heliopause. I. Parallel interstellar magnetic fields

Ruderman, M.S., Fahr, H.J. **275**, 635

On the interchange instability of solar magnetic flux tubes. III. The influence of the magnetic field geometry

Büntje, M. **276**, 236

Time evolution of a density discontinuity in the one-dimensional gravitational gas

Muriel, A., Feix, M., Jirkovsky, L. **279**, 341

Instrumentation: detectors

Ulysses precise localizations of gamma-ray bursts

Hurley, K., Sommer, M., Boer, M., Niel, M., Laros, J., Fenimore, E.E., Klebesadel, R., Fishman, G.J., Kouveliotou, C., Meegan, C., Paciesas, W.S., Wilson, R., Cline, T. **272**, 726 (97, 39)

X-ray timing explorer mission

Bradt, H.V., Rothschild, R.E., Swank, J.H. **272**, 745 (97, 355)

High energy spectroscopy with the AXAF

Holt, S.S. **272**, 745 (97, 367)

SAX overview

Scarsi, L. **272**, 745 (97, 371)

Gamma-ray imaging with germanium detectors

Mahoney, W.A., Callas, J.L., Lin, J.C., Radocinski, R.G., Skelton, R.T., Varnell, L.S., Wheaton, W.A. **272**, 746 (97, 385)

X-ray monitor on INTEGRAL: astrophysics in the 4-100 ke V band

Ubertini, P., Bassani, L., Bazzano, A., Lund, N., Manzo, G., Mas, M., Smith, A., Soggiu, E., Staubert, R., Turner, M. **272**, 746 (97, 389)

Possible applications of CdTe detectors to high-energy astronomy

Caroli, E., Baldazzi, G., Bassani, L., Di Cocco, G., Dusi, W., Malaguti, G., Rossi, M., Spizzichino, A., Stephen, J.B., Trifoglio, M. **272**, 746 (97, 393)

SIXE (Spanish-Italian X-ray Experiment)

Giovannelli, F., Sabau Graziani, L., La Padula, C., Errico, L., Frutti, M., Inarta, S., Mancini, D., Marozzi, S., Porzio, V., Vittonne, A.A. **272**, 747 (97, 395)

Monte Carlo simulation of hexagonal geometry for the International Gamma-Ray Astrophysics Laboratory

Sanchez, F., Uso, J.L., Reglero, V., Ferrero, J.L., Ruiz, J.A. **272**, 747 (97, 401)

Surface adjustment of the KOSMA 3 m telescope using phase retrieval "holography"

Fuhr, W., Stagnuhn, J., Schulz, A., Hills, R.E., Lasenby, A.N., Lasenby, J., Miller, M., Schieder, R., Stutzki, J., Vowinkel, B., Winnewisser, G. **274**, 975

N-band observations of comet Austin 1989c1: first images with the C10 μ camera

Lagage, P.O., Merlin, P., Remy, S., Sibille, F. **275**, 345

Coded masks with two spatial scales

Skinner, G.K., Grindlay, J.E. **276**, 673

Towards a bolometric dark matter detection experiment: underground radioactive background measurements in the 3 keV - 5 MeV energy range with a massive bolometer at 55 mK

Coron, N., Zhou, J.W., de Bellefon, A., Dambier, G., Giraud-Heraud, Y., Goldbach, C., Gonzalez-Mestres, L., Goret, P., Leblanc, J., de Marcillac, P., Nollez, G. **278**, L31

Shutter-free flatfielding for CCD detectors

Surma, P. **278**, 654

Instrumentation: interferometers

High resolution image restoration by stellar interferometry: the 5 beam optical simulator

Cruzalèbes, P., Schumacher, G., Robbe, S. **272**, 709

Analysis of large deflection zoom mirrors for the ESO Very Large Telescope Interferometer

Ferrari, M., Lemaître, G. **274**, 12

The cosmic anisotropy telescope

Robson, M., Yassin, G., Woan, G., Wilson, D.M.A., Scott, P.F., Lasenby, A.N., Kenderdine, S., Duffett-Smith, P.J. **277**, 314

An astronomical seismometer

Frandsen, S., Douglas, N.G., Butcher, H.R. **279**, 310

Instrumentation: miscellaneous

Modernization of the photoelectric astrolabe in China and primary results

Xu Jiayan, Wang Hongqi, Li Dongming, Li Qi, Wang Zezhi, Zhao Gang, Zhang Jianwei, Wang Rui, Hu Hui **271**, 360

Imaging with INTEGRAL

Dean, A.J. **272**, 745 (97, 361)

Brightness determination on photographic plates using a CCD line scanner

Kroll, P., Neugebauer, P. **273**, 341

Analysis of large deflection zoom mirrors for the ESO Very Large Telescope Interferometer

Ferrari, M., Lemaître, G. **274**, 12

An investigation of holographic correctors for astronomical telescopes

Lemelin, G., Lessard, R.A., Borra, E.F. **274**, 983

The new astrolabe of Santiago (Chile): description of the instrument and first results (Text in French)

Chollet, F., Noël, F. **276**, 655

An interferometric approach to the measurement of the diffuse light from optical surfaces and systems

Greco, V., Molesini, G., Quercioli, F., Righini, A. **277**, 345

On the correction of the aberrations of a liquid-mirror telescope observing at large zenith angles

Borra, E.F. **278**, 665

Full-disk helioseismic IRIS raw data calibration

Pallé, P.L., Fossat, E., Regulo, C., Loudagh, S., Schmider, F.X., Eghamberdiev, S., Gelly, B., Grec, G., Khalikov, S., Lazrek, M., Sanchez, L. **280**, 324

Experimental campaign of solar observation in 1991 with the ROA astrolabe (Text in French)

Sánchez, M., Moreno, F., Parra, F., Soler, M. **280**, 333

Multi-task guiding system of the Mt. Suhora Observatory

Krzeński, J., Wójcik, K. **280**, 338

Instrumentation: photometers

ARGO: a balloon-borne telescope for measurements of the millimeter diffuse sky emission

de Bernardis, P., Aquilini, E., Boscaleri, A., De Petris, M., Ger-vasi, M., Martinis, L., Masi, S., Natale, V., Palumbo, P., Scaramuzzi, F., Valenziano, L. **271**, 683

Instrumentation: polarimeters

X-ray polarimetry of AGNs with SXP

Massaro, E., Matt, G., Perola, G.C., Costa, E., Piro, L., Soffitta, P. **272**, 747 (97, 399)

Instrumentation: spectrographs

Active optics and deformed toroid concave gratings: higher order aspherizations

Wang, M., Lemaître, G. **271**, 365

Line-of-sight velocity measurements using a dissector-tube. I. An instrument description

Druzhinin, S.A., Pevtsov, A.A. **272**, 378

IACUB: a new echelle spectrograph for use at the Observatorio del Roque de los Muchachos

McKeith, C.D., García López, R.J., Rebolo, R., Barnett, E.W., Beckman, J.E., Martín, E.L., Traperó, J. **273**, 331

Dynamic spectra of radio sources from 4.5 to 5.0 GHz

Lecacheux, A., Rosolen, C., Davis, M., Bookbinder, J., Bastian, T.S., Dulk, G.A. **275**, 670

An astronomical seismometer

Frandsen, S., Douglas, N.G., Butcher, H.R. **279**, 310

Interplanetary medium

First results from the Giotto magnetometer experiment during the P/Grigg-Skjellerup encounter

Neubauer, F.M., Marschall, H., Pohl, M., Glassmeier, K.-H., Musmann, G., Mariani, F., Acuna, M.H., Burlaga, L.F., Ness, N.F., Wallis, M.K., Schmidt, H.U., Ungstrup, E. **268**, L5

Time- and space-variable structures of interstellar gas passing over the heliosphere: consequences for the interplanetary UV resonance glow

Fahr, H.J., Rucinski, D., Judge, D.L. **268**, 792

Angular source size measurements and interstellar scattering at 103 MHz using interplanetary scintillation

Janardhan, P., Alurkar, S.K. **269**, 119

Doppler tracking of spacecraft with multi-frequency links

Bertotti, B., Comoretto, G., Iess, L. **269**, 608

Analysis of Doppler shifts in the zodiacal light

Mukai, T., Mann, I. **271**, 530

Solar-driven neutral density waves

Blum, P., Gangopadhyay, P., Ogawa, H.S., Judge, D.L. **272**, 549

Observations of the solar wind and cometary ions during the encounter between Giotto and comet P/Grigg-Skjellerup

Johnstone, A.D., Coates, A.J., Huddleston, D.E., Jockers, K., Wilken, B., Borg, H., Gurgiolo, C., Winningham, J.D., Amata, E. **273**, L1

The effect of the heliospheric interface filtration on the distant Lyman-Alpha glow and the pick-up proton fluxes

Fahr, H.J., Osterbart, R., Rucinski, D. **274**, 612

The solar F-corona at 2.12 μm : calculations of near-solar dust in comparison to 1991 eclipse observations

Mann, I., MacQueen, R.M. **275**, 293

On the possibility of a major impact on Uranus in the past century

Tyson, N.D., Richmond, M.W., Woodhams, M., Ciotti, L. **275**, 630

The effect of magnetic fields on the macroscopic instability of the heliopause. I. Parallel interstellar magnetic fields

Ruderman, M.S., Fahr, H.J. **275**, 635

Dynamic spectra of radio sources from 4.5 to 5.0 GHz

Lecacheux, A., Rosolen, C., Davis, M., Bookbinder, J., Bastian, T.S., Dulk, G.A. **275**, 670

Optical properties of dust aggregates. II. Angular dependence of scattered light

Kozasa, T., Blum, J., Okamoto, H., Mukai, T. **276**, 278

Radiative transfer in the interplanetary medium at Lyman alpha

Quémenerais, E., Bertaux, J.-L. **277**, 283

Dust formation in stellar winds. VI. Moment equations for the formation of heterogeneous and core-mantle grains

Dominik, C., Sedlmayr, E., Gail, H.-P. **277**, 578

Cometary dust trails and meteor storms

Kresák, Ľ. **279**, 646

Interstellar medium: abundances

Measurement of the methyl cyanide *E/A* ratio in TMC-1

Minh, Y.C., Irvine, W.M., Ohishi, M., Ishikawa, S., Saito, S., Kaifu, N. **267**, 229

A multi-molecular study of the dense high-latitude cloud MCLD 126.6+24.5

Boden, K.-P., Heithausen, A. **268**, 255

The Li^6/Li ratio and the stellar yield of ^7Li

Reeves, H. **269**, 166

Interstellar lithium and the $^7\text{Li}/^6\text{Li}$ ratio toward ρ Ophiuchi

Lemoine, M., Ferlet, R., Vidal-Madjar, A., Emerich, C., Bertin, P. **269**, 469

The abundance of CH^+ in translucent molecular clouds: further tests of shock models

Gredel, R., van Dishoeck, E.F., Black, J.H. **269**, 477

The chemical compositions of the distant galactic open clusters Bo-chum 1 and NGC 1893

Rolleston, W.R.J., Brown, P.J.F., Dufton, P.L., Fitzsimmons, A. **270**, 107

Detection of interstellar CH_2DOH

Jacq, T., Walmsley, C.M., Mauersberger, R., Anderson, T., Herbst, E., De Lucia, F.C. **271**, 276

Tracing the molecular hydrogen content of the Draco nebula: very low $N(\text{H}_2)/W(^{12}\text{CO})$ ratios or varying FIR-emissivities?

Herbstmeier, U., Heithausen, A., Mebold, U. **272**, 514

The absorption spectrum of Q 2116-358

Wampler, E.J., Bergeron, J., Petitjean, P. **273**, 15

The interstellar $^{12}\text{CH}^+/^13\text{CH}^+$ ratio towards the Sco OB1 association

Vladilo, G., Centurión, M., Càssola, C. **273**, 239

A new method for determining the $^3\text{He}/^4\text{He}$ ratio in the local interstellar medium

Lemoine, M., Vidal-Madjar, A., Ferlet, R. **273**, 611

First tentative detection of the molecular oxygen isotopomer $^{16}\text{O}^{18}\text{O}$ in interstellar clouds

Pagani, L., Langer, W.D., Castets, A. **274**, L13

Interstellar Ca II and Na I in the SN 1987A field. I. Foreground and intermediate velocity gas

Molaro, P., Vladilo, G., Monai, S., D'Odorico, S., Ferlet, R., Vidal-Madjar, A., Dennefeld, M. **274**, 505

A search for molecular oxygen in cold dark clouds

Fuente, A., Cernicharo, J., García-Burillo, S., Tejero, J. **275**, 558

The molecular cloud associated with the H II region RCW 34

Pagani, L., Heydari-Malayeri, M., Castets, A. **275**, 573

Additional constraints on the Spitzer interstellar depletion model

Joseph, C.L. **275**, 597

Optical studies of interstellar material in low density regions of the Galaxy. I. A survey of interstellar Na I and Ca II absorption toward 57 distant stars

Sembach, K.R., Danks, A.C., Savage, B.D. **275**, 688 (**100**, 107)

Plateau de Bure observations of mm-wave molecular absorption toward BL Lacertae

Lucas, R., Liszt, H.S. **276**, L33

A multilevel study of ammonia in star forming regions. V. The Sgr B2 region

Hüttmeister, S., Wilson, T.L., Henkel, C., Mauersberger, R. **276**, 445

A chemical study of the photodissociation region NGC 7023

Fuente, A., Martín-Pintado, J., Cernicharo, J., Bachiller, R. **276**, 473

Modeling of IR emission of interstellar clouds. II. Self-consistent models of individual nearby clouds

Bernard, J.P., Boulanger, F., Puget, J.L. **277**, 609

The Na I/Ca II ratio in the local interstellar medium

Bertin, P., Lallement, R., Ferlet, R., Vidal-Madjar, A. **278**, 549
Kinematics of the ionised gas in Puppis-Vela including the Gum Nebula

Srinivasan Sahu, M., Sahu, K.C. **280**, 231

Chemical behaviour of planetary nebulae and galactic abundance gradients

Pasquali, A., Perinotto, M. **280**, 581

Interstellar medium: atoms

Tracing the molecular hydrogen content of the Draco nebula: very low $N(H_2)/W(^{12}CO)$ ratios or varying FIR-emissivities?

Herbstmeier, U., Heithausen, A., Mebold, U. **272**, 514

Interstellar Ca II and Na I in the SN 1987A field. I. Foreground and intermediate velocity gas

Molaro, P., Vladilo, G., Monai, S., D'Odorico, S., Ferlet, R., Vidal-Madjar, A., Dennefeld, M. **274**, 505

Optical studies of interstellar material in low density regions of the Galaxy. I. A survey of interstellar Na I and Ca II absorption toward 57 distant stars

Sembach, K.R., Danks, A.C., Savage, B.D. **275**, 688 (**100**, 107)

High resolution Na D and K I interstellar profiles towards stars in the globular cluster M4

Kemp, S.N., Bates, B., Lyons, M.A. **278**, 542

The Na I/Ca II ratio in the local interstellar medium

Bertin, P., Lallement, R., Ferlet, R., Vidal-Madjar, A. **278**, 549

Interstellar and intergalactic gas in the direction of SN 1993J in M 81

Vladilo, G., Centurión, M., de Boer, K.S., King, D.L., Lipman, K., Stegert, J., Unger, S.W., Walton, N.A. **280**, L11

Intergalactic and galactic clouds on the line of sight to SN 1993J in M 81 seen in IUE spectra

de Boer, K.S., Rodríguez Pascual, P., Wamsteker, W., Sonneborn, G., Fransson, C., Bomans, D.J., Kirshner, R.P. **280**, L15

Interstellar medium: bubbles

Galactic dynamics and magnetic fields. I. Superbubbles in galactic central regions

Lesch, H., Harnett, J. **268**, 58

Searching for embedded clusters in the Cepheus-Cassiopeia region

Pásztor, L., Tóth, L.V., Balázs, L.G. **268**, 108

Infrared environment of 6 Cephei

Ábrahám, P., Kun, M., Balázs, L.G., Holl, A., Frontó, A. **268**, 230

Spatially resolved spectroscopy of WR ring nebulae. IV. The fundamental parameters of the central stars

Esteban, C., Smith, L.J., Vilchez, J.M., Clegg, R.E.S. **272**, 299

A two-dimensional thin hot plasma model for the distribution of ^{26}Al γ -rays

Malet, I., Montmerle, T., von Ballmoos, P. **272**, 732 (**97**, 137)

Anomalous proper motions in the Cygnus Superbubble region

Comerón, F., Torra, J., Jordi, C., Gómez, A.E. **279**, 679 (**101**, 37)

Superbubbles in galaxies: a new class of nonthermal sources

Bykov, A.M., Fleishman, G.D. **280**, L27

Kinematics of the ionised gas in Puppis-Vela including the Gum Nebula

Srinivasan Sahu, M., Sahu, K.C. **280**, 231

Interstellar medium: clouds

Measurement of the methyl cyanide E/A ratio in TMC-1

Minh, Y.C., Irvine, W.M., Ohishi, M., Ishikawa, S., Saito, S., Kaifu, N. **267**, 229

Infrared and submillimetric emission lines from the envelopes of dark clouds

Le Bourlot, J., Pineau des Forêts, G., Roueff, E., Flower, D.R. **267**, 233

Microscale structure in the Norma dark cloud

Waldhausen, S., Marraco, H.G. **267**, 255

The fragmentation of molecular clouds: critical (Jeans) mass in the vicinity of thermal instability and influence of visible extinction variations

Renard, M., Chièze, J.P. **267**, 549

The abundance of nitric oxide in TMC 1

Gerin, M., Viala, Y., Casoli, F. **268**, 212

Small-scale polarization structure in the diffuse galactic emission at 325 MHz

Wieringa, M.H., de Bruyn, A.G., Jansen, D., Brouw, W.N., Karger, P. **268**, 215

A multi-molecular study of the dense high-latitude cloud MCLD 126.6+24.5

Boden, K.-P., Heithausen, A. **268**, 255

A composite large-scale CO survey at high galactic latitudes in the second quadrant

Heithausen, A., Stacy, J.G., de Vries, H.W., Mebold, U., Thaddeus, P. **268**, 265

Erratum: Identification of IRAS point sources in Scorpio-Centaurus-Lupus

Carballo, R., Wesselius, P.R., Whittet, D.C.B. **268**, 832

The abundance of CH^+ in translucent molecular clouds: further tests of shock models

Gredel, R., van Dishoeck, E.F., Black, J.H. **269**, 477

On the minimum length for magnetic waves in molecular clouds

Elmegreen, B.G., Fiebig, D. **270**, 397

High density structure of the L 1455 dark cloud

Juan, J., Bachiller, R., Kömpe, C., Martín-Pintado, J. **270**, 432

Visual polarization measurements in the Cepheus flare

Bel, N., Lafon, J.-P.J., Leroy, J.L. **270**, 444

Fractal 3-D simulations of molecular clouds

Hetem Jr., A., Lépine, J.R.D. **270**, 451

A multi-transition study of carbon monoxide in the Orion A molecular cloud. II. $C^{18}O$

Dutrey, A., Duvert, G., Castets, A., Langer, W.D., Bally, J., Wilson, R.W. **270**, 468

Results of the ESO-SEST Key Programme: CO in the Magellanic Clouds. II. CO in the SW region of the Small Magellanic Cloud

Rubio, M., Lequeux, J., Boulanger, F., Booth, R.S., Garay, G., de Graauw, T., Israël, F.P., Johansson, L.E.B., Kutner, M.L., Nyman, L.-Å. **271**, 1

Results of the ESO-SEST Key Programme: CO in the Magellanic Clouds. III. Molecular gas in the Small Magellanic Cloud

Rubio, M., Lequeux, J., Boulanger, F. **271**, 9

Detection of interstellar CH_2DOH

Jacq, T., Walmsley, C.M., Mauersberger, R., Anderson, T., Herbst, E., De Lucia, F.C. **271**, 276

Fitting a clumpy cloud model to observations of CO and ^{13}CO transitions

Robert, C., Pagani, L. **271**, 282

VLA observations of the 8 GHz rotationally excited OH lines toward W3(OH)

Baudry, A., Menten, K.M., Walmsley, C.M., Wilson, T.L. **271**, 552

Discovery of a cold and gravitationally unstable cloud fragment

Chini, R., Krügel, E., Haslam, C.G.T., Kreysa, E., Lemke, R., Reipurth, B., Sievers, A., Ward-Thompson, D. **272**, L5

- Tracing the molecular hydrogen content of the Draco nebula: very low $N(H_2)/W(^{13}CO)$ ratios or varying FIR-emissivities?
Herbstmeier, U., Heithausen, A., Mebold, U. **272**, 514
- First detection of CS (10-9) in galactic star forming cores
Hauschildt, H., Güsten, R., Phillips, T.G., Schilke, P., Serabyn, E., Walker, C.K. **273**, L23
- An embedded cluster of stars at the Rosette GMC CO peak
Block, D.L., Geballe, T.R., Dyson, J.E. **273**, L41
- On the nature of the stellar cluster at the Rosette GMC CO peak
Hanson, M.M., Geballe, T.R., Conti, P.S., Block, D.L. **273**, L44
- Formation of multiple protostellar systems
Klapp, J., Sigalotti, L.D.G., de Felice, F. **273**, 175
- CO in Messier 51. II. Molecular cloud dynamics
García-Burillo, S., Combes, F., Gerin, M. **274**, 148
- CO observations of the Lupus dark clouds
Gahm, G.F., Johansson, L.E.B., Liseau, R. **274**, 415
- Molecular clouds in the 30 Doradus halo
Garay, G., Rubio, M., Ramírez, S., Johansson, L.E.B., Thaddeus, P. **274**, 743
- A deep CO survey of the third galactic quadrant
May, J., Bronfman, L., Alvarez, H., Murphy, D.C., Thaddeus, P. **274**, 1015 (**99**, 103)
- An unusual case of HCN hyperfine anomalies in S 76E
Zinchenko, I., Forsström, V., Mattila, K. **275**, L9
- A second phase of star formation in the Serpens core
Casali, M.M., Eiroa, C., Duncan, W.D. **275**, 195
- Low-mass protostellar condensations in magnetized molecular clouds
Porro, I., Silvestro, G. **275**, 563
- The molecular cloud associated with the H II region RCW 34
Pagani, L., Heydari-Malayeri, M., Castets, A. **275**, 573
- Warm dense gas in high latitude clouds: multiline CO and NH_3 observations of MBM 32
Schreiber, W., Wouterloot, J.G.A., Heithausen, A., Winnewisser, G. **276**, L5
- Results of the ESO-SEST Key Programme on CO in the Magellanic Clouds. I. A survey of CO in the LMC and the SMC
Israel, F.P., Johansson, L.E.B., Lequeux, J., Booth, R.S., Nyman, L.-Å., Crane, P., Rubio, M., de Graauw, T., Kutner, M.L., Gredel, R., Boulanger, F., Garay, G., Westerlund, B.E. **276**, 25
- Hot ammonia emission: kinetic temperature gradients in Orion-KL
Wilson, T.L., Henkel, C., Hüttemeister, S., Dahmen, G., Linhart, A., Lemme, C., Schmid-Burgk, J. **276**, L29
- Plateau de Bure observations of mm-wave molecular absorption toward BL Lacertae
Lucas, R., Liszt, H.S. **276**, L33
- The W 80 dark cloud: a case study of fragmentation. I. The observations
Feldt, C., Wendker, H.J. **276**, 328 (**100**, 287)
- Ammonia and methyl cyanide in hot cores
Olmi, L., Cesaroni, R., Walmsley, C.M. **276**, 489
- Polarization maps for the dark clouds B 227 and L 121
Bhatt, H.C., Jain, S.K. **276**, 507
- The star-forming region around HH 24-26: a revised morphology
Gibb, A.G., Heaton, B.D. **276**, 511
- The W 80 dark cloud: a case study of fragmentation. II. The H I content
Feldt, C. **276**, 531
- Stochastic particle acceleration at parallel astrophysical shock waves
Schlickeiser, R., Campeanu, A., Lerche, I. **276**, 614
- Orion KL: rotation or two clouds?
Wang, T.Y., Wouterloot, J.G.A., Wilson, T.L. **277**, 205
- Do molecular clouds contain accreting black holes?
Campana, S., Pardi, M.C. **277**, 477
- Modeling of IR emission of interstellar clouds. II. Self-consistent models of individual nearby clouds
Bernard, J.P., Boulanger, F., Puget, J.L. **277**, 609
- High resolution Na D and K I interstellar profiles towards stars in the globular cluster M4
Kemp, S.N., Bates, B., Lyons, M.A. **278**, 542
- The Na I/Ca II ratio in the local interstellar medium
Bertin, P., Lallement, R., Ferlet, R., Vidal-Madjar, A. **278**, 549
- Large-scale structure of the R Coronae Australis cloud core
Harju, J., Haikala, L.K., Mattila, K., Mauersberger, R., Booth, R.S., Nordh, H.L. **278**, 569
- 1.3 mm emission in the disk of NGC 891: evidence of cold dust
Guélin, M., Zylka, R., Mezger, P.G., Haslam, C.G.T., Kreysa, E., Lemke, R., Sievers, A.W. **279**, L37
- CO observations of a region of strongly polarized radio continuum emission in the SW arms of M 31
Berkhuijsen, E.M., Bajaja, E., Beck, R. **279**, 359
- The emission spectra of radiowave quasars. I. The far-infrared emission
Niemeyer, M., Biermann, P.L. **279**, 393
- HCN hyperfine anomalies in dark clouds
González-Alfonso, E., Cernicharo, J. **279**, 506
- The molecular gas toward Cassiopeia A
Wilson, T.L., Mauersberger, R., Muters, D., Przewodnik, A., Olano, C.A. **280**, 221
- Kinetic temperatures in Galactic Center molecular clouds
Hüttemeister, S., Wilson, T.L., Bania, T.M., Martín-Pintado, J. **280**, 255
- Our galactic center: a laboratory for the feeding of active galactic nuclei
von Linden, S., Biermann, P.L., Duschl, W.J., Lesch, H., Schmutzler, T. **280**, 468
- Physical conditions for far-infrared laser emission from dense OH maser regions
Doel, R.C., Gray, M.D., Field, D., Jones, K.N. **280**, 592
- Dust coagulation in dense molecular clouds: the formation of fluffy aggregates
Ossenkopf, V. **280**, 617
- (Interstellar medium:) cosmic rays**
- Galactic diffusion and wind models of cosmic-ray transport. I. Insight from CR composition studies and γ -ray observations
Bloemen, J.B.G.M., Dogiel, V.A., Dorman, V.L., Ptuskin, V.S. **267**, 372
- Galactic dynamics and magnetic fields. I. Superbubbles in galactic central regions
Lesch, H., Harnett, J. **268**, 58
- Kinetic theory of propagation and "runaway" of galactic cosmic rays
Dogiel, V.A., Gurevich, A.V., Zybin, K.P. **268**, 356
- Diffusion and drift of very high energy cosmic rays in galactic magnetic fields
Ptuskin, V.S., Rogovaya, S.I., Zirakashvili, V.N., Chuvilgin, L.G., Kristiansen, G.B., Klepach, E.G., Kulikov, G.V. **268**, 726
- Diffusive first and second order Fermi acceleration at parallel shock waves
Ostrowski, M., Schlickeiser, R. **268**, 812
- A comment on second-order Fermi acceleration
Schneider, P. **269**, L13
- The Li^6/Li ratio and the stellar yield of 7Li
Reeves, H. **269**, 166
- Cosmic antiprotons in the diffusion model. I. General properties in comparison with other models
Halm, I., Jansen, F., de Niem, D. **269**, 601

On the predictive power of the minimum energy condition. I. Isotropic steady-state configurations

Pohl, M. **270**, 91

Cosmic rays. I. The cosmic ray spectrum between 10^4 GeV and $3 \cdot 10^9$ GeV

Biermann, P.L. **271**, 649

Extragalactic ultra-high energy cosmic rays. I. Contribution from hot spots in FR-II radio galaxies

Rachen, J.P., Biermann, P.L. **272**, 161

Supernova-like mechanism for cosmic-ray origin in AGN

Dokuchaev, V.I., Karakula, S., Tkaczyk, W. **272**, 731 (**97**, 109)

Diffuse Galactic low energy gamma-ray continuum emission

Skibo, J.G., Ramaty, R. **272**, 733 (**97**, 145)

X-rays from supernova remnants with particle acceleration

Dorfi, E.A., Böhringer, H. **273**, 251

Extragalactic ultra-high energy cosmic rays. II. Comparison with experimental data

Rachen, J.P., Stanev, T., Biermann, P.L. **273**, 377

Carbon dust formation on interstellar grains

Jenniskens, P., Baratta, G.A., Kouchi, A., de Groot, M.S., Greenberg, J.M., Strazzulla, G. **273**, 583

Cosmic rays. IV. The spectrum and chemical composition above 10^4 GeV

Stanev, T., Biermann, P.L., Gaisser, T.K. **274**, 902

The VLA-WSRT survey of M 33: statistical properties of a sample of optically selected supernova remnants

Duric, N., Viallefond, F., Goss, W.M., van der Hulst, J.M. **275**, 353 (**99**, 217)

Cosmic rays. III. The cosmic ray spectrum between 1 GeV and 10^4 GeV and the radio emission from supernova remnants

Biermann, P.L., Strom, R.G. **275**, 659

Cosmic rays. II. Evidence for a magnetic rotator Wolf-Rayet star origin

Biermann, P.L., Cassinelli, J.P. **277**, 691

Isotopic anomalies in cosmic rays and the metallicity gradient in the Galaxy

Maeder, A., Meynet, G. **278**, 406

Magnetic fields and the cosmic ray e/p ratio. Clues from gamma-ray observations of the Magellanic Clouds

Pohl, M. **279**, L17

Anomalous diffusion of cosmic rays across the magnetic field

Chuvilgin, L.G., Ptuskin, V.S. **279**, 278

The emission spectra of radioweak quasars. I. The far-infrared emission

Niemeyer, M., Biermann, P.L. **279**, 393

CO absorption in the outer Galaxy: abundant cold molecular gas

Lequeux, J., Allen, R.J., Guilloteau, S. **280**, 23

(Interstellar medium:) dust, extinction

The reddening and variability of XX Ophiuchi

Evans, A., Albinson, J.S., Barrett, P., Davies, J.K., Goldsmith, M.J., Hutchinson, M.G., Maddison, R.C. **267**, 161

Microscale structure in the Norma dark cloud

Waldhausen, S., Marraco, H.G. **267**, 255

Infrared environment of 6 Cephei

Ábrahám, P., Kun, M., Balázs, L.G., Holl, A., Frontó, A. **268**, 230

VHE 65a: an extremely red reflection nebula

Perrin, J.-M., Sivan, J.-P. **268**, 276

Unidentified infrared emission bands: models for the carriers of the satellites of the $3.3 \mu\text{m}$ band

Talbi, D., Pauzat, F., Ellinger, Y. **268**, 805

On the transparency of the inner regions of early-type spiral galaxies

Simien, F., Morenas, V., Valentijn, E.A. **269**, 111

Radiative energy flux changes of Pleione in the far-UV through the Be-shell \rightarrow Be transition

Doazan, V., de la Fuente, A., Barylak, M., Cramer, N., Mauron, N. **269**, 415

The 2140 cm^{-1} band of frozen CO: laboratory experiments and astrophysical applications

Palumbo, M.E., Strazzulla, G. **269**, 568

The vis/UV spectrum of coals and the interstellar extinction curve

Papoular, R., Breton, J., Gensterblum, G., Nenner, I., Papoular, R.J., Pireaux, J.-J. **270**, L5

On the minimum length for magnetic waves in molecular clouds

Elmegreen, B.G., Fiebig, D. **270**, 397

Anomalous dust in the environment of Herbig Ae/Be stars

Gorti, U., Bhatt, H.C. **270**, 426

Visual polarization measurements in the Cepheus flare

Bel, N., Lafon, J.-P.J., Leroy, J.L. **270**, 444

Alignment of dust grains in ionized regions

Anderson, N., Watson, W.D. **270**, 477

Near-infrared speckle interferometry of Lk H α 233

Leinert, C., Haas, M., Weitzel, N. **271**, 535

Experimental results for ion-molecule reactions of fullerenes: implications for interstellar and circumstellar chemistry

Petrie, S., Javahery, G., Bohme, D.K. **271**, 662

Discovery of a cold and gravitationally unstable cloud fragment

Chini, R., Krügel, E., Haslam, C.G.T., Kreysa, E., Lemke, R., Reipurth, B., Sievers, A., Ward-Thompson, D. **272**, L5

Tracing the molecular hydrogen content of the Draco nebula: very low $N(\text{H}_2)/W(^{12}\text{CO})$ ratios or varying FIR-emissivities?

Herbstmeier, U., Heithausen, A., Mebold, U. **272**, 514

A detailed study of the sparse open cluster Roslund 3: a case for circumstellar extinction

Turner, D.G. **272**, 752 (**97**, 755)

Photoelectric uvby β photometry of 230 stars brighter than $m_{\text{pg}}=13.0$ in the two $b=+75^\circ$ fields SA 80 and SA 81

Knude, J. **273**, 353 (**98**, 213)

Circumstellar dust in Mira variables and the mass loss mechanisms

Anandarao, B.G., Pottasch, S.R., Vaidya, D.B. **273**, 570

Carbon dust formation on interstellar grains

Jenniskens, P., Baratta, G.A., Kouchi, A., de Groot, M.S., Greenberg, J.M., Strazzulla, G. **273**, 583

High-resolution spectrophotometric imaging of the Herbig-Haro object HH 29 in the L 1551 outflow

Fridlund, C.V.M., Liseau, R., Perryman, M.A.C. **273**, 601

A polarimetric investigation on interstellar dust within 50 pc from the Sun

Leroy, J.L. **274**, 203

Environment dependence of interstellar extinction curves

Jenniskens, P., Greenberg, J.M. **274**, 439

Dust destruction in the transition region between stellar wind and interstellar medium

Woitke, P., Dominik, C., Sedlmayr, E. **274**, 451

Complex structure in two diffuse interstellar bands

Jenniskens, P., Désert, F.-X. **274**, 465

Optical constants of organic refractory residue

Jenniskens, P. **274**, 653

Diffuse absorption bands in the spectra of mass-losing objects

Le Bertre, T., Lequeux, J. **274**, 909

Walraven photometry of stars near the luminous blue variable AG Carinae

Hoekzema, N.M., Lamers, H.J.G.L.M., van Genderen, A.M. **274**, 1012 (**98**, 505)

Very small dust grains in the circumstellar environment of Herbig Ae/Be stars

Natta, A., Prusti, T., Krügel, E. **275**, 527

Tracing the roots of interstellar mid-infrared emission

Jenniskens, P., Désert, F.-X. **275**, 549

Additional constraints on the Spitzer interstellar depletion model

Joseph, C.L. **275**, 597

A 1.3 mm survey for circumstellar dust around young Chamaeleon objects

Henning, T., Pfau, W., Zinnecker, H., Prusti, T. **276**, 129

Optical properties of dust aggregates. II. Angular dependence of scattered light

Kozasa, T., Blum, J., Okamoto, H., Mukai, T. **276**, 278

Anisotropic light scattering in a spherical shell

Bosma, P.B. **276**, 303

The cloudy circumstellar dust shell of WW Vulpeculae revisited

Friedemann, C., Reimann, H.-G., Gürtler, J., Tóth, V. **277**, 184

Bright blue stars in Vela observed with the "Glazar" space telescope

Tovmassian, H.M., Hovhannessian, R.K., Epemian, R.A., Huguenin, D. **277**, 362 (**100**, 501)

Dust formation in stellar winds. VI. Moment equations for the formation of heterogeneous and core-mantle grains

Dominik, C., Sedlmayr, E., Gail, H.-P. **277**, 578

Modeling of IR emission of interstellar clouds. II. Self-consistent models of individual nearby clouds

Bernard, J.P., Boulanger, F., Puget, J.L. **277**, 609

HDE 269828: a reddened massive star cluster

Heydari-Malayeri, M., Grebel, E.K., Melnick, J., Jorda, L. **278**, 11

SiS₂ in circumstellar shells

Goebel, J.H. **278**, 226

Search for the 1.67 μ m PAH emission band: more upper limits

Siebenmorgen, R., Peletier, R.F. **279**, L45

The emission spectra of radioweak quasars. I. The far-infrared emission

Niemeyer, M., Biermann, P.L. **279**, 393

The intensity and state of polarization of light scattered in a spherical shell

Bosma, P.B. **279**, 572

The influence of ice-coated grains on protostellar spectra

Preibisch, T., Ossenkopf, V., Yorke, H.W., Henning, T. **279**, 577

Optical polarization of 1000 stars within 50 pc of the Sun

Leroy, J.L. **279**, 677 (**101**, 551)

Anatomy of the Sagittarius complex. III. Morphology and characteristics of the Sgr B2 giant molecular cloud

Gordon, M.A., Berkemann, U., Mezger, P.G., Zylka, R., Haslam, C.G.T., Kreysa, E., Sievers, A., Lemke, R. **280**, 208

SiC in circumstellar shells around C stars

Lorenz-Martins, S., Lefèvre, J. **280**, 567

Porous grains and polarization of light: the silicate features

Henning, T., Stognienko, R. **280**, 609

Dust coagulation in dense molecular clouds: the formation of fluffy aggregates

Ossenkopf, V. **280**, 617

Interstellar medium: general

Refractive interstellar scintillations and low frequency variability: a detailed analysis using measured source structures

Spangler, S.R., Eastman, W.A., Gregorini, L., Mantovani, F., Padrielli, L. **267**, 213

Infrared and submillimetric emission lines from the envelopes of dark clouds

Le Boulrot, J., Pineau des Forêts, G., Roueff, E., Flower, D.R. **267**, 233

Time- and space-variable structures of interstellar gas passing over the heliosphere: consequences for the interplanetary UV resonance glow

Fahr, H.J., Rucinski, D., Judge, D.L. **268**, 792

Galactic winds. II. Role of the disk-halo interface in cosmic ray driven galactic winds

Breitschwerdt, D., McKenzie, J.F., Völk, H.J. **269**, 84

Solar-driven neutral density waves

Blum, P., Gangopadhyay, P., Ogawa, H.S., Judge, D.L. **272**, 549

Overview of the first results from EGRET

Fichtel, C.E., Bertsch, D.L., Hartman, R.C., Hunter, S.D., Kanbach, G., Kniffen, D.A., Kwok, P.W., Lin, Y.C., Mattox, J.R., Mayer-Hasselwander, H.A., Michelson, P.F., von Montigny, C., Nolan, P.L., Pinkau, K., Roethermel, H., Schneid, E.J., Sommer, M., Sreekumar, P., Thompson, D.J. **272**, 725 (**97**, 13)

Effective radiative cooling in optically thin plasmas

Schmutzler, T., Tscharnuter, W.M. **273**, 318

Dust destruction in the transition region between stellar wind and interstellar medium

Woitke, P., Dominik, C., Sedlmayr, E. **274**, 451

The effect of the heliospheric interface filtration on the distant Lyman-Alpha glow and the pick-up proton fluxes

Fahr, H.J., Osterbart, R., Rucinski, D. **274**, 612

A search for molecular oxygen in cold dark clouds

Fuente, A., Cernicharo, J., García-Burillo, S., Tejero, J. **275**, 558

Numerically efficient expressions for nebular line cooling

Balick, B., Mellema, G., Frank, A. **275**, 588

Anisotropic light scattering in a spherical shell

Bosma, P.B. **276**, 303

Determination of the heliospheric shock and of the supersonic solar wind geometry by means of the interstellar wind parameters

Fahr, H.-J., Fichtner, H., Scherer, K. **277**, 249

The intensity and state of polarization of light scattered in a spherical shell

Bosma, P.B. **279**, 572

Classification and statistical properties of galactic H₂O masers

Palagi, F., Cesaroni, R., Comoretto, G., Felli, M., Natale, V. **279**, 681 (**101**, 153)

CO absorption in the outer Galaxy: abundant cold molecular gas

Lequeux, J., Allen, R.J., Guilloteau, S. **280**, 23

(Interstellar medium:) HII regions

Detailed radio morphology of the compact nebula K 3-35

Aaquist, O.B. **267**, 260

Alignment of dust grains in ionized regions

Anderson, N., Watson, W.D. **270**, 477

The optical spectrum of Nova GQ Muscae 1983 from 1984 to 1988

Péquignot, D., Petitjean, P., Boisson, C., Krautter, J. **271**, 219

The method of addition of layers for non-linear radiative transfer problems: practical applications

Magnan, C. **271**, 543

VLA observations of the 8 GHz rotationally excited OH lines toward W3(OH)

Baudry, A., Menten, K.M., Walmsley, C.M., Wilson, T.L. **271**, 552

Spatially resolved spectroscopy of WR ring nebulae. IV. The fundamental parameters of the central stars

Esteban, C., Smith, L.J., Vilchez, J.M., Clegg, R.E.S. **272**, 299

The radio continuum morphology of the Orion Nebula: from 10' to 0.1'' resolution

Felli, M., Churchwell, E., Wilson, T.L., Taylor, G.B. **273**, 352 (**98**, 137)

H α interferometric, optical and near IR photometric studies of star forming regions. I. The Cepheus B/Sh2-155/Cepheus OB3 association complex

Moreno-Corral, M.A., Chavarria-K., C., de Lara, E., Wagner, S. **273**, 619

Environment dependence of interstellar extinction curves

Jenniskens, P., Greenberg, J.M. **274**, 439

N 63A: a supernova remnant within an H II region

Dickel, J.R., Milne, D.K., Junkes, N., Klein, U. **275**, 265

Global photometric structure of the Orion nebula

Greve, A., van Genderen, A.M., Augusteijn, T. **275**, 356 (**99**, 577)

Numerically efficient expressions for nebular line cooling

Balick, B., Mellema, G., Frank, A. **275**, 588

A multi-transitional molecular and atomic line study of S 140

Minchin, N.R., White, G.J., Padman, R. **277**, 595

An objective-prism survey of emission-line objects in M 31

Meyssonnier, N., Lequeux, J., Azzopardi, M. **280**, 346 (**102**, 251)

A new catalogue of H α emission-line stars and small nebulae in the Small Magellanic Cloud

Meyssonnier, N., Azzopardi, M. **280**, 349 (**102**, 451)

H α survey of the Small Magellanic Cloud

le Coarer, E., Rosado, M., Georgelin, Y., Viale, A., Goldes, G. **280**, 365

H II regions in spiral galaxies: positions, luminosity function and diameter distribution

Banfi, M., Rampazzo, R., Chincarini, G., Henry, R.B.C. **280**, 373

H₂O masers associated with dense molecular clouds and ultracompact H II regions. II. The extended sample

Palla, F., Cesaroni, R., Brand, J., Caselli, P., Comoretto, G., Felli, M. **280**, 599

Interstellar medium: individual objects: . . . (except planetary nebulae)

B 157

Fitting a clumpy cloud model to observations of CO and ¹³CO transitions

Robert, C., Pagani, L. **271**, 282

Cas A

The molecular gas toward Cassiopeia A

Wilson, T.L., Mauersberger, R., Muders, D., Przewodnik, A., Olano, C.A. **280**, 221

Cep A

Optical evidence for a poorly-collimated wind from Cepheus A

Corcoran, D., Ray, T.P., Mundy, R. **279**, 206

Cepheus B molecular cloud

H α interferometric, optical and near IR photometric studies of star forming regions. I. The Cepheus B/Sh2-155/Cepheus OB3 association complex

Moreno-Corral, M.A., Chavarria-K., C., de Lara, E., Wagner, S. **273**, 619

CG 13

Star formation in Bok globules and low-mass clouds. V. H α emission stars near Sa 101, CG 13 and CG 22

Reipurth, B., Pettersson, B. **267**, 439

CG 22

Star formation in Bok globules and low-mass clouds. V. H α emission stars near Sa 101, CG 13 and CG 22

Reipurth, B., Pettersson, B. **267**, 439

Chamaeleon cloud

Fractal 3-D simulations of molecular clouds

Hetem Jr., A., Lépine, J.R.D. **270**, 451

Chamaeleon clouds

Modeling of IR emission of interstellar clouds. II. Self-consistent models of individual nearby clouds

Bernard, J.P., Boulanger, F., Puget, J.L. **277**, 609

Crab Nebula

Spectrophotometry of the continuum in the Crab Nebula

Véron-Cetty, M.P., Woltjer, L. **270**, 370

Observations of TeV gamma rays from the Crab nebula

Goret, P., Palfrey, T., Tabary, A., Vacanti, G., Bazer-Bachi, R. **270**, 401

Radio-interferometric imaging of very large objects: implications for array design

Cornwell, T.J., Holdaway, M.A., Uson, J.M. **271**, 697

Studies of hard X-ray source variability using BATSE

Paciesas, W.S., Harmon, B.A., Pendleton, G.N., Finger, M.H., Fishman, G.J., Meegan, C.A., Rubin, B.C., Wilson, R.B. **272**, 739 (**97**, 253)

DG 174

Infrared environment of 6 Cephei

Ábrahám, P., Kun, M., Balázs, L.G., Holl, A., Frontó, A. **268**, 230

Draco nebula

Tracing the molecular hydrogen content of the Draco nebula: very low N(H₂)/W(¹²CO) ratios or varying FIR-emissivities?

Herbstmeier, U., Heithausen, A., Mebold, U. **272**, 514

G 34.3+0.2

The structure of G 34.3+0.2 deduced from multitransition molecular line observations of HCO⁺

Heaton, B.D., Little, L.T., Yamashita, T., Davies, S.R., Cunningham, C.T., Monteiro, T.S. **278**, 238

G 76.9+1.0

G 76.9+1.0, a supernova remnant with unusual properties

Landecker, T.L., Higgs, L.A., Wendker, H.J. **276**, 522

G 84.2-0.8

CO and H I associated with the supernova remnant G 84.2-0.8?

Feldt, C., Green, D.A. **274**, 421

G 114.3+0.3

A new pulsar-supernova remnant association: PSR 2334+61 and G 114.3+0.3

Fürst, E., Reich, W., Seiradakis, J.H. **276**, 470

G 127+0.5

Detection of optical emission in the area of G 127.1+0.5

Xilouris, K.M., Papamastorakis, J., Paleologou, E.V., Andredakis, Y., Haerendel, G. **270**, 393

GGD 34

A kinematical study of the jet GGD 34

Gómez de Castro, A., Miranda, L.F., Eiroa, C. **267**, 559

Gum nebula

Kinematics of the ionised gas in Puppis-Vela including the Gum Nebula

Srinivasan Sahu, M., Sahu, K.C. **280**, 231

He 2-77

Search for the 1.67 μm PAH emission band: more upper limits

Siebenmorgen, R., Peletier, R.F. **279**, L45

HH 24-26

The star-forming region around HH 24-26: a revised morphology

Gibb, A.G., Heaton, B.D. **276**, 511

IC 443

Submillimeter observations of the shocked molecular gas associated with the supernova remnant IC 443

van Dishoeck, E.F., Jansen, D.J., Phillips, T.G. **279**, 541

K 3-35

Detailed radio morphology of the compact nebula K 3-35

Aaquist, O.B. **267**, 260

L 1014

Fitting a clumpy cloud model to observations of CO and ^{13}CO transitions

Robert, C., Pagani, L. **271**, 282

L 1251

Star formation in L 1251: distance and members

Kun, M., Prusti, T. **272**, 235

L 134N

First tentative detection of the molecular oxygen isotopomer $^{16}\text{O}^{18}\text{O}$ in interstellar clouds

Pagani, L., Langer, W.D., Castets, A. **274**, L13

L 1455

High density structure of the L 1455 dark cloud

Juan, J., Bachiller, R., Kömpe, C., Martín-Pintado, J. **270**, 432

L 1551

The molecular outflow very near L 1551 IRS 5

Fridlund, C.V.M., Klee, L.B.G. **268**, 245

High-resolution spectrophotometric imaging of the Herbig-Haro object HH 29 in the L 1551 outflow

Fridlund, C.V.M., Liseau, R., Perryman, M.A.C. **273**, 601

L 1652

Discovery of a cold and gravitationally unstable cloud fragment

Chini, R., Krügel, E., Haslam, C.G.T., Kreysa, E., Lemke, R., Reipurth, B., Sievers, A., Ward-Thompson, D. **272**, L5

Lupus clouds

CO observations of the Lupus dark clouds

Gahm, G.F., Johansson, L.E.B., Liseau, R. **274**, 415

LVC 88+36-2

A dense H I filament in the local X-ray emitting plasma: ROSAT observation of LVC 88+36-2

Kerp, J., Herbstmeier, U., Mebold, U. **268**, L21

MBM 32

Warm dense gas in high latitude clouds: multiline CO and NH_3 observations of MBM 32

Schreiber, W., Wouterloot, J.G.A., Heithausen, A., Winniewisser, G. **276**, L5

MCLD 126.6+24.5

A multi-molecular study of the dense high-latitude cloud MCLD 126.6+24.5

Boden, K.-P., Heithausen, A. **268**, 255

N 63A

N 63A: a supernova remnant within an H II region

Dickel, J.R., Milne, D.K., Junkes, N., Klein, U. **275**, 265

N 120 (LMC)

The supernova remnant N 120 in the Large Magellanic Cloud

Rosado, M., Laval, A., Le Coarer, E., Boulesteix, J., Georgelin, Y.P., Marcelin, M. **272**, 541

NGC 5367

A CO and IRAS study of Cometary Globule 12

White, G.J. **274**, L33

NGC 7023

A chemical study of the photodissociation region NGC 7023

Fuente, A., Martín-Pintado, J., Cernicharo, J., Bachiller, R. **276**, 473

NGC 7129

New Herbig-Haro objects and pre-main sequence stars in the star formation region NGC 7129

Miranda, L.F., Eiroa, C., Gómez de Castro, A.I. **271**, 564

NGC 7538

First tentative detection of the molecular oxygen isotopomer $^{16}\text{O}^{18}\text{O}$ in interstellar clouds

Pagani, L., Langer, W.D., Castets, A. **274**, L13

Ophiuchus clouds

Modeling of IR emission of interstellar clouds. II. Self-consistent models of individual nearby clouds

Bernard, J.P., Boulanger, F., Puget, J.L. **277**, 609

Orion bar

Search for the 1.67 μm PAH emission band: more upper limits

Siebenmorgen, R., Peletier, R.F. **279**, L45

Orion clouds

A multi-transition study of carbon monoxide in the Orion A molecular cloud. II. C^{18}O

Dutrey, A., Duvert, G., Castets, A., Langer, W.D., Bally, J., Wilson, R.W. **270**, 468

Detection of interstellar CH₂DOH

Jacq, T., Walmsley, C.M., Mauersberger, R., Anderson, T., Herbst, E., De Lucia, F.C. **271**, 276

Hot ammonia emission: kinetic temperature gradients in Orion-KL

Wilson, T.L., Henkel, C., Hüttemeister, S., Dahmen, G., Linhart, A., Lemme, C., Schmid-Burgk, J. **276**, L29

Orion KL: rotation or two clouds?

Wang, T.Y., Wouterloot, J.G.A., Wilson, T.L. **277**, 205

Orion-KL**Three transitions of methanol at 1 cm wavelength**

Wilson, T.L., Hüttemeister, S., Dahmen, G., Henkel, C. **268**, 249

Orion nebula**The radio continuum morphology of the Orion Nebula: from 10' to 0.1" resolution**

Felli, M., Churchwell, E., Wilson, T.L., Taylor, G.B. **273**, 352 (**98**, 137)

Global photometric structure of the Orion nebula

Greve, A., van Genderen, A.M., Augusteijn, T. **275**, 356 (**99**, 577)

The Orion radio zoo revisited: source variability

Felli, M., Taylor, G.B., Catarzi, M., Churchwell, E., Kurtz, S. **279**, 680 (**101**, 127)

R CrA cloud**Large-scale structure of the R Coronae Australis cloud core**

Harju, J., Haikala, L.K., Mattila, K., Mauersberger, R., Booth, R.S., Nordh, H.L. **278**, 569

RCW 34**The molecular cloud associated with the H II region RCW 34**

Pagani, L., Heydari-Malayeri, M., Castets, A. **275**, 573

RNO 40**Bipolar structure of the Herbig-Haro object RNO 40**

Bohigas, J., Persi, P., Tapia, M. **267**, 168

Rosette nebula**An embedded cluster of stars at the Rosette GMC CO peak**

Block, D.L., Geballe, T.R., Dyson, J.E. **273**, L41

On the nature of the stellar cluster at the Rosette GMC CO peak

Hanson, M.M., Geballe, T.R., Conti, P.S., Block, D.L. **273**, L44

S 133**Infrared environment of 6 Cephei**

Ábrahám, P., Kun, M., Balázs, L.G., Holl, A., Frontó, A. **268**, 230

S 140**A multi-transitional molecular and atomic line study of S 140**

Minchin, N.R., White, G.J., Padman, R. **277**, 595

S 76E**An unusual case of HCN hyperfine anomalies in S 76E**

Zinchenko, I., Forsström, V., Mattila, K. **275**, L9

Sa 101**Star formation in Bok globules and low-mass clouds. V. H α emission stars near Sa 101, CG 13 and CG 22**

Reipurth, B., Pettersson, B. **267**, 439

Serpens cloud**A second phase of star formation in the Serpens core**

Casali, M.M., Eiroa, C., Duncan, W.D. **275**, 195

Sgr A***VLBA image of Sgr A* at $\lambda = 1.35$ cm**

Alberdi, A., Lara, L., Marcaide, J.M., Elósegui, P., Shapiro, I.I., Cotton, W.D., Diamond, P.J., Romney, J.D., Preston, R.A. **277**, L1

Sgr B2**A multilevel study of ammonia in star forming regions. V. The Sgr B2 region**

Hüttemeister, S., Wilson, T.L., Henkel, C., Mauersberger, R. **276**, 445

Anatomy of the Sagittarius complex. III. Morphology and characteristics of the Sgr B2 giant molecular cloud

Gordon, M.A., Berkemann, U., Mezger, P.G., Zylka, R., Haslam, C.G.T., Kreysa, E., Sievers, A., Lemke, R. **280**, 208

Sh 2-155**H α interferometric, optical and near IR photometric studies of star forming regions. I. The Cepheus B/Sh2-155/Cepheus OB3 association complex**

Moreno-Corral, M.A., Chavarria-K., C., de Lara, E., Wagner, S. **273**, 619

TMC 1**Measurement of the methyl cyanide E/A ratio in TMC-1**

Minh, Y.C., Irvine, W.M., Ohishi, M., Ishikawa, S., Saito, S., Kaifu, N. **267**, 229

The abundance of nitric oxide in TMC 1

Gerin, M., Viala, Y., Casoli, F. **268**, 212

Vela clouds**Star formation in the Vela molecular clouds. II. The luminosity function of the Class I sources**

Lorenzetti, D., Spinoglio, L., Liseau, R. **275**, 489

Vela shell**Kinematics of the ionised gas in Puppis-Vela including the Gum Nebula**

Srinivasan Sahu, M., Sahu, K.C. **280**, 231

VHE 65a ($l=317^\circ$, $b=-41^\circ$)**VHE 65 a: an extremely red reflection nebula**

Perrin, J.-M., Sivan, J.-P. **268**, 276

W 3 (OH)**Three transitions of methanol at 1 cm wavelength**

Wilson, T.L., Hüttemeister, S., Dahmen, G., Henkel, C. **268**, 249

VLA observations of the 8 GHz rotationally excited OH lines toward W3(OH)

Baudry, A., Menten, K.M., Walmsley, C.M., Wilson, T.L. **271**, 552

W 80 dark cloud**The W 80 dark cloud: a case study of fragmentation. I. The observations**

Feldt, C., Wendker, H.J. **276**, 328 (**100**, 287)

The W80 dark cloud: a case study of fragmentation. II. The H_I content

Feldt, C. **276**, 531

η Car

The outflowing dust around η Carinae

Meaburn, J., Walsh, J.R., Wolstencroft, R.D. **268**, 283

ρ Oph cloud

The new Be-type star HD 147196 in the ρ Ophiuchi dark cloud region

Thé, P.S., Pérez, M.R., de Winter, D., van den Ancker, M.E. **269**, 181

30 Dor (LMC)

Molecular clouds in the 30 Doradus halo

Garay, G., Rubio, M., Ramírez, S., Johansson, L.E.B., Thaddeus, P. **274**, 743

3C 58

High resolution H_I observations of 3C 58

Roberts, D.A., Goss, W.M., Kalberla, P.M.W., Herbstmeier, U., Schwarz, U.J. **274**, 427

Interstellar medium: jets and outflows

Stability analysis of colliding winds in a double star system

Dgani, R., Walder, R., Nussbaumer, H. **267**, 155

Bipolar structure of the Herbig-Haro object RNO 40

Bohigas, J., Persi, P., Tapia, M. **267**, 168

A kinematical study of the jet GGD 34

Gómez de Castro, A., Miranda, L.F., Eiroa, C. **267**, 559

The molecular outflow very near L 1551 IRS 5

Fridlund, C.V.M., Knee, L.B.G. **268**, 245

Bipolar nebulae and binary stars: the family of crabs He 2-104, BI Crucis, and MyCn 18

Corradi, R.L.M., Schwarz, H.E. **268**, 714

Analytical studies of collimated winds. III. Nonrotating meridional MHD outflows

Trussoni, E., Tsinganos, K. **269**, 589

A series of VLBI images of SS 433 during the outbursts in May/June 1987

Vermeulen, R.C., Schilizzi, R.T., Spencer, R.E., Romney, J.D., Fejes, I. **270**, 177

Daily spectra of radio flares from SS 433 in May/June 1987

Vermeulen, R.C., McAdam, W.B., Trushkin, S.A., Facondi, S.R., Fiedler, R.L., Hjellming, R.M., Johnston, K.J., Corbin, J. **270**, 189

Monitoring of very rapid changes in the optical spectrum of SS433 in May/June 1987

Vermeulen, R.C., Murdin, P.G., van den Heuvel, E.P.J., Fabrika, S.N., Wagner, R.M., Margon, B., Hutchings, J.B., Schilizzi, R.T., van Kerkwijk, M.H., van den Hoek, L.B., Ott, E., Angebault, L.P., Miley, G.K., D'Odorico, S., Borisov, N. **270**, 204

The kinematic structure of the unusual outflow source Sh 2-71

Cuesta, L., Phillips, J.P. **270**, 379

High density structure of the L 1455 dark cloud

Juan, J., Bachiller, R., Kömpe, C., Martín-Pintado, J. **270**, 432

3D stability analysis of colliding winds in a double star system

Dgani, R. **271**, 527

New Herbig-Haro objects and pre-main sequence stars in the star formation region NGC 7129

Miranda, L.F., Eiroa, C., Gómez de Castro, A.I. **271**, 564

Cold dust around Herbig-Haro energy sources: a 1300 μ m survey
Reipurth, B., Chini, R., Krügel, E., Kreysa, E., Sievers, A. **273**, 221

The bipolar outflow of He 2-36

Corradi, R.L.M., Schwarz, H.E. **273**, 247

High-resolution spectrophotometric imaging of the Herbig-Haro object HH 29 in the L 1551 outflow

Fridlund, C.V.M., Liseau, R., Perryman, M.A.C. **273**, 601

A CO and IRAS study of Cometary Globule 12

White, G.J. **274**, L33

An episodic jet from η Carinae

Meaburn, J., Gehring, G., Walsh, J.R., Palmer, J.W., López, J.A., Bryce, M., Raga, A.C. **276**, L21

The star-forming region around HH 24-26: a revised morphology

Gibb, A.G., Heaton, B.D. **276**, 511

G 76.9+1.0, a supernova remnant with unusual properties

Landecker, T.L., Higgs, L.A., Wendker, H.J. **276**, 522

A unified stellar jet/molecular outflow model

Raga, A.C., Cantó, J., Calvet, N., Rodríguez, L.F., Torrelles, J.M. **276**, 539

Magnetized accretion-ejection structures. I. General statements

Ferreira, J., Pelletier, G. **276**, 625

Magnetized accretion-ejection structures. II. Magnetic channeling around compact objects

Ferreira, J., Pelletier, G. **276**, 637

A multi-transitional molecular and atomic line study of S 140

Minchin, N.R., White, G.J., Padman, R. **277**, 595

Modification of the nebular environment in symbiotic systems due to colliding winds

Nussbaumer, H., Walder, R. **278**, 209

Near-IR spectroscopy and imaging photometry of M 1-16: bipolar H₂ jets in a post-AGB transition object

Aspin, C., Schwarz, H.E., Smith, M.G., Corradi, R.L.M., Mountain, C.M., Wright, G.S., Ramsay, S.K., Robertson, D., Beard, S.M., Pickup, D.A., Geballe, T.R., Bridger, A., Laird, D., Montgomery, D., Glendinning, R., Pentland, G., Griffin, J.L., Aycock, J. **278**, 255

Molecular outflows entrained by jet bowshocks

Raga, A., Cabrit, S. **278**, 267

Optical evidence for a poorly-collimated wind from Cepheus A

Corcoran, D., Ray, T.P., Mundt, R. **279**, 206

Interstellar medium: kinematics and dynamics

The fragmentation of molecular clouds: critical (Jeans) mass in the vicinity of thermal instability and influence of visible extinction variations

Renard, M., Chièze, J.P. **267**, 549

Bipolar nebulae and binary stars: the family of crabs He 2-104, BI Crucis, and MyCn 18

Corradi, R.L.M., Schwarz, H.E. **268**, 714

The kinematics of the high velocity bipolar nebulae NGC 6537 and Hb 5

Corradi, R.L.M., Schwarz, H.E. **269**, 462

New Herbig-Haro objects and pre-main sequence stars in the star formation region NGC 7129

Miranda, L.F., Eiroa, C., Gómez de Castro, A.I. **271**, 564

Condensations in a self-gravitating flow: from gravito-acoustic waves to bound structures

Chantry, P., Grappin, R., Léorat, J. **272**, 555

The bipolar outflow of He 2-36

Corradi, R.L.M., Schwarz, H.E. **273**, 247

Ammonia clumps in the Orion and Cepheus clouds

Harju, J., Walmsley, C.M., Wouterloot, J.G.A. **273**, 351 (98, 51)

Long slit spectroscopy of extended ionized nebulosities around a sample of nearby Seyfert galaxies

Durret, F., Boisson, C., Petitjean, P., Bergeron, J. **273**, 355 (**98**, 365)

A CO and IRAS study of Cometary Globule 12

White, G.J. **274**, L33

Formation of rings in weak bars: inelastic collisions and star formation

Palouš, J., Jungwiert, B., Kopecký, J. **274**, 189

CO observations of the Lupus dark clouds

Gahm, G.F., Johansson, L.E.B., Liseau, R. **274**, 415

Kinematics of neutral gas in the bulge of the Milky Way

Burton, W.B., Liszt, H.S. **274**, 765

The W 80 dark cloud: a case study of fragmentation. I. The observations

Feldt, C., Wendker, H.J. **276**, 328 (**100**, 287)

Elliptical streamlines in the inner Galaxy and their large-scale organization

Kampmann, H., Rohlf, K., Kreitschmann, J. **276**, 339

Modelling non-axisymmetric bow shocks

Bandiera, R. **276**, 648

Molecular outflows entrained by jet bowshocks

Raga, A., Cabrit, S. **278**, 267

High resolution Na D and K I interstellar profiles towards stars in the globular cluster M4

Kemp, S.N., Bates, B., Lyons, M.A. **278**, 542

Magnetic buoyancy and the galactic dynamo

Hanasz, M., Lesch, H. **278**, 561

Superbubbles in galaxies: a new class of nonthermal sources

Bykov, A.M., Fleishman, G.D. **280**, L27

Dynamical evolution of dissipative cloud systems

Theis, C., Hensler, G. **280**, 85

Dust coagulation in dense molecular clouds: the formation of fluffy aggregates

Ossenkopf, V. **280**, 617

Interstellar medium: magnetic fields

Small-scale polarization structure in the diffuse galactic emission at 325 MHz

Wieringa, M.H., de Bruyn, A.G., Jansen, D., Brouw, W.N., Katgert, P. **268**, 215

Diffusion and drift of very high energy cosmic rays in galactic magnetic fields

Ptushkin, V.S., Rogovaya, S.I., Zirakashvili, V.N., Chuvilgin, L.G., Khristiansen, G.B., Klepach, E.G., Kulikov, G.V. **268**, 726

Alpha-effect and alpha-quenching

Rüdiger, G., Kichatinov, L.L. **269**, 581

On the minimum length for magnetic waves in molecular clouds

Elmegreen, B.G., Fiebig, D. **270**, 397

Visual polarization measurements in the Cepheus flare

Bel, N., Lafon, J.-P.J., Leroy, J.L. **270**, 444

Alignment of dust grains in ionized regions

Anderson, N., Watson, W.D. **270**, 477

Low-mass protostellar condensations in magnetized molecular clouds

Porro, I., Silvestro, G. **275**, 563

Polarization maps for the dark clouds B 227 and L 121

Bhatt, H.C., Jain, S.K. **276**, 507

The structure of G 34.3+0.2 deduced from multitransition molecular line observations of HCO⁺

Heaton, B.D., Little, L.T., Yamashita, T., Davies, S.R., Cunningham, C.T., Monteiro, T.S. **278**, 238

Magnetic buoyancy and the galactic dynamo

Hanasz, M., Lesch, H. **278**, 561

Magnetic fields and the cosmic ray e/p ratio. Clues from gamma-ray observations of the Magellanic Clouds

Pohl, M. **279**, L17

Anomalous diffusion of cosmic rays across the magnetic field

Chuvilgin, L.G., Ptushkin, V.S. **279**, 278

CO observations of a region of strongly polarized radio continuum emission in the SW arms of M 31

Berkhuijsen, E.M., Bajaja, E., Beck, R. **279**, 359

The molecular gas toward Cassiopeia A

Wilson, T.L., Mauersberger, R., Muders, D., Przewodnik, A., Olano, C.A. **280**, 221

Kinetic temperatures in Galactic Center molecular clouds

Hüttemeister, S., Wilson, T.L., Bania, T.M., Martín-Pintado, J. **280**, 255

Interstellar medium: molecules

Measurement of the methyl cyanide E/A ratio in TMC-1

Minh, Y.C., Irvine, W.M., Ohishi, M., Ishikawa, S., Saito, S., Kaifu, N. **267**, 229

Infrared and submillimetric emission lines from the envelopes of dark clouds

Le Bourlot, J., Pineau des Forêts, G., Roueff, E., Flower, D.R. **267**, 233

The abundance of nitric oxide in TMC 1

Gerin, M., Viala, Y., Casoli, F. **268**, 212

The molecular outflow very near L 1551 IRS 5

Fridlund, C.V.M., Knee, L.B.G. **268**, 245

Three transitions of methanol at 1 cm wavelength

Wilson, T.L., Hüttemeister, S., Dahmen, G., Henkel, C. **268**, 249

A multi-molecular study of the dense high-latitude cloud MCLD 126.6+24.5

Boden, K.-P., Heithausen, A. **268**, 255

A composite large-scale CO survey at high galactic latitudes in the second quadrant

Heithausen, A., Stacy, J.G., de Vries, H.W., Mebold, U., Thaddeus, P. **268**, 265

VHE 65 a: an extremely red reflection nebula

Perrin, J.-M., Sivan, J.-P. **268**, 276

Millimetre observations of old novae

Weight, A., Evans, A., Albinson, J.S., Krautter, J. **268**, 294

A CO(1-0) and CO(2-1) survey of nearby spiral galaxies. III. More H₂ gas in perturbed galaxies?

Braine, J., Combes, F. **269**, 7

The abundance of CH⁺ in translucent molecular clouds: further tests of shock models

Gredel, R., van Dishoeck, E.F., Black, J.H. **269**, 477

The 2140 cm⁻¹ band of frozen CO: laboratory experiments and astrophysical applications

Palumbo, M.E., Strazzulla, G. **269**, 568

The vis/UV spectrum of coals and the interstellar extinction curve

Papoular, R., Breton, J., Gensterblum, G., Nenner, I., Papoular, R.J., Pireaux, J.-J. **270**, L5

High resolution ¹²CO(2-1) observations of the molecular gas in Centaurus A

Rydbeck, G., Wiklund, T., Cameron, M., Wild, W., Eckart, A., Genzel, R., Rothermel, H. **270**, L13

The formation of interstellar molecular lines in a turbulent velocity field with finite correlation length. II. The case $\sigma_v \gg v_{\text{therm}}$

Kegel, W.H., Piehler, G., Albrecht, M.A. **270**, 407

High density structure of the L 1455 dark cloud

Juan, J., Bachiller, R., Kömpe, C., Martín-Pintado, J. **270**, 432

- A multi-transition study of carbon monoxide in the Orion A molecular cloud. II. $C^{18}O$
Dutrey, A., Duvert, G., Castets, A., Langer, W.D., Bally, J., Wilson, R.W. **270**, 468
- Results of the ESO-SEST Key Programme: CO in the Magellanic Clouds. II. CO in the SW region of the Small Magellanic Cloud
Rubio, M., Lequeux, J., Boulanger, F., Booth, R.S., Garay, G., de Graauw, T., Israël, F.P., Johansson, L.E.B., Kutner, M.L., Nyman, L.-Å. **271**, 1
- Results of the ESO-SEST Key Programme: CO in the Magellanic Clouds. III. Molecular gas in the Small Magellanic Cloud
Rubio, M., Lequeux, J., Boulanger, F. **271**, 9
- Distribution of molecular gas in the primeval galaxy IRAS F 10214+4724
Radford, S.J.E., Brown, R.L., Vanden Bout, P.A. **271**, L21
- Detection of interstellar CH_3DOH
Jacq, T., Walmsley, C.M., Mauersberger, R., Anderson, T., Herbst, E., De Lucia, F.C. **271**, 276
- Experimental results for ion-molecule reactions of fullerenes: implications for interstellar and circumstellar chemistry
Petrie, S., Javahery, G., Bohme, D.K. **271**, 662
- Molecular gas in nearby galaxies. I. CO observations of a distance-limited sample
Sage, L.J. **272**, 123
- Tracing the molecular hydrogen content of the Draco nebula: very low $N(H_2)/W(^{12}CO)$ ratios or varying FIR-emissivities?
Herbstmeier, U., Heithausen, A., Mebold, U. **272**, 514
- Simulated rotational band contours of C_{60} and their comparison with some of the diffuse interstellar bands
Edwards, S.A., Leach, S. **272**, 533
- Powering the starburst in the merging system Mkn 297
Sage, L.J., Loose, H.-H., Salzer, J.J. **273**, 6
- Water at $z = 2.286?$
Encrenaz, P.J., Combes, F., Casoli, F., Gerin, M., Pagani, L., Horellou, C., Gac, C. **273**, L19
- First detection of CS (10-9) in galactic star forming cores
Hauschildt, H., Güsten, R., Phillips, T.G., Schilke, P., Serabyn, E., Walker, C.K. **273**, L23
- The interstellar $^{12}CH^+ / ^{13}CH^+$ ratio towards the Sco OB1 association
Vladilo, G., Centurión, M., Càssola, C. **273**, 239
- Observation of methanol maser sources with the Arcetri 12 GHz receiver
Catarzi, M., Moscadelli, L., Panella, D. **273**, 352 (**98**, 127)
- First tentative detection of the molecular oxygen isotopomer $^{16}O^{18}O$ in interstellar clouds
Pagani, L., Langer, W.D., Castets, A. **274**, L13
- Formation of rings in weak bars: inelastic collisions and star formation
Palouš, J., Jungwiert, B., Kopecký, J. **274**, 189
- CO observations of the Lupus dark clouds
Gahm, G.F., Johansson, L.E.B., Liseau, R. **274**, 415
- C and O nucleosynthesis in starbursts: the connection between distant mergers, the Galaxy, and the solar system
Henkel, C., Mauersberger, R. **274**, 730
- Molecular clouds in the 30 Doradus halo
Garay, G., Rubio, M., Ramírez, S., Johansson, L.E.B., Thaddeus, P. **274**, 743
- IRAS sources beyond the solar circle. III. Observations of H_2O , OH, CH_3OH and CO
Wouterloot, J.G.A., Brand, J., Fiegle, K. **274**, 1013 (**98**, 589)
- A deep CO survey of the third galactic quadrant
May, J., Bronfman, L., Alvarez, H., Murphy, D.C., Thaddeus, P. **274**, 1015 (**99**, 103)
- An unusual case of HCN hyperfine anomalies in S 76E
Zinchenko, I., Forsström, V., Mattila, K. **275**, L9
- A search for molecular oxygen in cold dark clouds
Fuente, A., Cernicharo, J., García-Burillo, S., Tejero, J. **275**, 558
- The molecular cloud associated with the H II region RCW 34
Pagani, L., Heydari-Malayeri, M., Castets, A. **275**, 573
- Warm dense gas in high latitude clouds: multiline CO and NH_3 observations of MBM 32
Schreiber, W., Wouterloot, J.G.A., Heithausen, A., Winnewisser, G. **276**, L5
- Results of the ESO-SEST Key Programme on CO in the Magellanic Clouds. I. A survey of CO in the LMC and the SMC
Israel, F.P., Johansson, L.E.B., Lequeux, J., Booth, R.S., Nyman, L.-Å., Crane, P., Rubio, M., de Graauw, T., Kutner, M.L., Gredel, R., Boulanger, F., Garay, G., Westerlund, B.E. **276**, 25
- Hot ammonia emission: kinetic temperature gradients in Orion-KL
Wilson, T.L., Henkel, C., Hüttemeister, S., Dahmen, G., Linhart, A., Lemme, C., Schmid-Burgk, J. **276**, L29
- Plateau de Bure observations of mm-wave molecular absorption toward BL Lacertae
Lucas, R., Liszt, H.S. **276**, L33
- The W 80 dark cloud: a case study of fragmentation. I. The observations
Feldt, C., Wendker, H.J. **276**, 328 (**100**, 287)
- A multilevel study of ammonia in star forming regions. V. The Sgr B2 region
Hüttemeister, S., Wilson, T.L., Henkel, C., Mauersberger, R. **276**, 445
- A chemical study of the photodissociation region NGC 7023
Fuente, A., Martín-Pintado, J., Cernicharo, J., Bachiller, R. **276**, 473
- Ammonia and methyl cyanide in hot cores
Olmi, L., Cesaroni, R., Walmsley, C.M. **276**, 489
- The star-forming region around HH 24-26: a revised morphology
Gibb, A.G., Heaton, B.D. **276**, 511
- The W 80 dark cloud: a case study of fragmentation. II. The H I content
Feldt, C. **276**, 531
- A unified stellar jet/molecular outflow model
Raga, A.C., Cantó, J., Calvet, N., Rodríguez, L.F., Torrelles, J.M. **276**, 539
- Orion KL: rotation or two clouds?
Wang, T.Y., Wouterloot, J.G.A., Wilson, T.L. **277**, 205
- Molecular gas in nearby galaxies. II. The data
Sage, L.J. **277**, 363 (**100**, 537)
- CO(2 \rightarrow 1) and ^{13}CO (1 \rightarrow 0) emission from luminous southern infrared galaxies
Garay, G., Mardones, D., Mirabel, I.F. **277**, 405
- A multi-transitional molecular and atomic line study of S 140
Minchin, N.R., White, G.J., Padman, R. **277**, 595
- The structure of G 34.3+0.2 deduced from multitransition molecular line observations of HCO^+
Heaton, B.D., Little, L.T., Yamashita, T., Davies, S.R., Cunningham, C.T., Monteiro, T.S. **278**, 238
- Near-IR spectroscopy and imaging photometry of M 1-16: bipolar H₂ jets in a post-AGB transition object
Aspin, C., Schwarz, H.E., Smith, M.G., Corradi, R.L.M., Mountain, C.M., Wright, G.S., Ramsay, S.K., Robertson, D., Beard, S.M., Pickup, D.A., Geballe, T.R., Bridger, A., Laird, D., Montgomery, D., Glendinning, R., Pentland, G., Griffin, J.L., Aycock, J. **278**, 255
- Molecular outflows entrained by jet bowshocks
Raga, A., Cabrit, S. **278**, 267

- Large-scale structure of the R Coronae Australis cloud core
Harju, J., Haikala, L.K., Mattila, K., Mauersberger, R., Booth, R.S., Nordh, H.L. **278**, 569
- Search for the 1.67 μm PAH emission band: more upper limits
Siebmorgen, R., Peletier, R.F. **279**, L45
- HCN hyperfine anomalies in dark clouds
González-Alfonso, E., Cernicharo, J. **279**, 506
- Submillimeter observations of the shocked molecular gas associated with the supernova remnant IC 443
van Dishoeck, E.F., Jansen, D.J., Phillips, T.G. **279**, 541
- CO absorption in the outer Galaxy: abundant cold molecular gas
Lequeux, J., Allen, R.J., Guilloteau, S. **280**, 23
- The molecular gas toward Cassiopeia A
Wilson, T.L., Mauersberger, R., Muders, D., Przewodnik, A., Olano, C.A. **280**, 221
- Kinetic temperatures in Galactic Center molecular clouds
Hüttemeister, S., Wilson, T.L., Bania, T.M., Martín-Pintado, J. **280**, 255
- Physical conditions for far-infrared laser emission from dense OH maser regions
Doel, R.C., Gray, M.D., Field, D., Jones, K.N. **280**, 592
- (Interstellar medium:) planetary nebulae: general**
- The central stars of He 2-131 and He 2-138: photometric variations
Hutton, R.G., Méndez, R.H. **267**, L8
- IRAS 06562-0337: final mass-loss episodes before the formation of a planetary nebula?
García-Lario, P., Manchado, A., Sahu, K.C., Pottasch, S.R. **267**, L11
- IRAS 06562-0337: final mass-loss episodes before the formation of a planetary nebula?
García-Lario, P., Manchado, A., Sahu, K.C., Pottasch, S.R. **267**, L11
- SAO 244567: a post-AGB star which has turned into a planetary nebula within the last 40 years
Parthasarathy, M., García-Lario, P., Pottasch, S.R., Manchado, A., Clavel, J., de Martino, D., Van de Steene, G.C.M., Sahu, K.C. **267**, L19
- The spatio-kinematic structure of the CO envelopes of evolved planetary nebulae
Bachiller, R., Huggins, P.J., Cox, P., Forveille, T. **267**, 177
- Episodic symmetric jets in the planetary nebula Fg 1
López, J.A., Roth, M., Tapia, M. **267**, 194
- Spectroscopy and shock modelling of the unusual bipolar outflow NGC 6905
Cuesta, L., Phillips, J.P., Mampaso, A. **267**, 199
- Detailed radio morphology of the compact nebula K 3-35
Aaquist, O.B. **267**, 260
- On the formation rate and space density of close white dwarf main sequence star binaries
de Kool, M., Ritter, H. **267**, 397
- On the relative C, N, O abundances and the evolutionary status of yellow symbiotic stars
Schmid, H.M., Nussbaumer, H. **268**, 159
- A new PG 1159 star discovered in the ROSAT XRT all sky survey: NLTE analysis of X-ray and optical spectra
Motch, C., Werner, K., Pakull, M.W. **268**, 561
- Bipolar nebulae and binary stars: the family of crabs He 2-104, BI Crucis, and MyCn 18
Corradi, R.L.M., Schwarz, H.E. **268**, 714
- The kinematic structure of the unusual outflow source Sh 2-71
Cuesta, L., Phillips, J.P. **270**, 379
- Type I planetary nebulae in the Large Magellanic Cloud: oxygen, sulphur, and argon abundances as tracers of chemical enrichment
de Freitas Pacheco, J.A., Barbu, B., Costa, R.D.D., Idiart, T.E.P. **271**, 429
- IACUB: a new echelle spectrograph for use at the Observatorio del Roque de los Muchachos
McKeith, C.D., García López, R.J., Rebolo, R., Barnett, E.W., Beckman, J.E., Martín, E.L., Trapero, J. **273**, 331
- Radio continuum observations of southern planetary nebulae candidates
Van de Steene, G.C.M., Pottasch, S.R. **274**, 895
- The bright end of the planetary nebula luminosity function
Méndez, R.H., Kudritzki, R.P., Ciardullo, R., Jacoby, G.H. **275**, 534
- Numerically efficient expressions for nebular line cooling
Balick, B., Mellema, G., Frank, A. **275**, 588
- Near-infrared and optical imaging of Q 2345+007: the largest gravitationally lensed QSO system?
Stanghellini, L., Corradi, R.L.M., Schwarz, H.E. **276**, 463
- On high-temperature halos around planetary nebulae
Marten, H. **277**, L9
- Search for resolved H α nebulae around symbiotic stars and their formation mechanisms
Munari, U., Patat, F. **277**, 195
- Two new planetary nebulae in the galactic bulge
Cuisinier, F., Terzan, A., Acker, A. **277**, 203
- Kinematics of bipolar planetary nebulae
Corradi, R.L.M., Schwarz, H.E. **278**, 247
- The correlations between planetary nebula morphology and central star evolution
Stanghellini, L., Corradi, R.L.M., Schwarz, H.E. **279**, 521
- Abundances of non-type I planetary nebulae in the LMC
de Freitas Pacheco, J.A., Costa, R.D.D., Maciel, W.J. **279**, 567
- Erratum: The correlations between planetary nebula morphology and central star evolution
Stanghellini, L., Corradi, R.L.M., Schwarz, H.E. **279**, 674
- Faint halos around compact planetary nebulae
Hua, C.T., Grundseth, B., Maucherat, A.-J. **279**, 676 (**101**, 541)
- High-resolution imaging of NGC 7027
Robberto, M., Clampin, M., Ligi, S., Paresce, F., Staude, H.J. **280**, 241
- An objective-prism survey of emission-line objects in M 31
Meyssonnier, N., Lequeux, J., Azzopardi, M. **280**, 346 (**102**, 251)
- A new catalogue of H α emission-line stars and small nebulae in the Small Magellanic Cloud
Meyssonnier, N., Azzopardi, M. **280**, 349 (**102**, 451)
- Wolf-Rayet nuclei of planetary nebulae. Observations and classification
Tylenda, R., Acker, A., Stenholm, B. **280**, 349 (**102**, 595)
- Chemical behaviour of planetary nebulae and galactic abundance gradients
Pasquali, A., Perinotto, M. **280**, 581
- (Interstellar medium:) planetary nebulae: individual: ...**
- A 63**
- Imaging and spectroscopy of Abell 63 (UU Sge)
Walton, N.A., Walsh, J.R., Pottasch, S.R. **275**, 256
- Fg 1**
- Episodic symmetric jets in the planetary nebula Fg 1
López, J.A., Roth, M., Tapia, M. **267**, 194

Hb 5

The kinematics of the high velocity bipolar nebulae NGC 6537 and Hb 5

Corradi, R.L.M., Schwarz, H.E. 269, 462

He 2-36

The bipolar outflow of He 2-36

Corradi, R.L.M., Schwarz, H.E. 273, 247

He 2-90

He2-90: a southern planetary nebula with low metal abundances

Costa, R.D.D., de Freitas Pacheco, J.A., Maciel, W.J. 276, 184

He 2-131

The central stars of He 2-131 and He 2-138: photometric variations

Hutton, R.G., Méndez, R.H. 267, L8

He 2-138

The central stars of He 2-131 and He 2-138: photometric variations

Hutton, R.G., Méndez, R.H. 267, L8

IRAS 06562-0337

IRAS 06562-0337: final mass-loss episodes before the formation of a planetary nebula?

Garcia-Lario, P., Manchado, A., Sahu, K.C., Pottasch, S.R. 267, L11

IRAS 17150-3224

IRAS 17150-3224: a young, optically bipolar, proto-planetary nebula

Hu, J.Y., Slijkhuis, S., Nguyen-Q-Rieu, de Jong, T. 273, 185

K 3-35

Detailed radio morphology of the compact nebula K 3-35

Aaquist, O.B. 267, 260

M 1-16

Near-IR spectroscopy and imaging photometry of M 1-16: bipolar H₂ jets in a post-AGB transition object

Aspin, C., Schwarz, H.E., Smith, M.G., Corradi, R.L.M., Mountain, C.M., Wright, G.S., Ramsay, S.K., Robertson, D., Beard, S.M., Pickup, D.A., Geballe, T.R., Bridger, A., Laird, D., Montgomery, D., Glendinning, R., Pentland, G., Griffin, J.L., Ayccock, J. 278, 255

NGC 246

Stark broadening of C IV lines

Schöning, T. 267, 300

NGC 2346

The bipolar outflow of He 2-36

Corradi, R.L.M., Schwarz, H.E. 273, 247

NGC 2371

NGC 2371: a high excitation planetary nebula with an O VI nucleus

Kaler, J.B., Stanghellini, L., Shaw, R.A. 279, 529

NGC 6302

Accurate wavelengths of near-infrared coronal lines from spectroscopic measurements of NGC 6302

Reconditi, M., Oliva, E. 274, 662

NGC 6537

The kinematics of the high velocity bipolar nebulae NGC 6537 and Hb 5

Corradi, R.L.M., Schwarz, H.E. 269, 462

NGC 6543

On high-temperature halos around planetary nebulae

Marten, H. 277, L9

NGC 6772

The spatio-kinematic structure of the CO envelopes of evolved planetary nebulae

Bachiller, R., Huggins, P.J., Cox, P., Forveille, T. 267, 177

NGC 6781

The spatio-kinematic structure of the CO envelopes of evolved planetary nebulae

Bachiller, R., Huggins, P.J., Cox, P., Forveille, T. 267, 177

NGC 6826

On high-temperature halos around planetary nebulae

Marten, H. 277, L9

NGC 6853

Morphological study of the extended halo around the Dumbbell Nebula (NGC 6853)

Papamastorakis, J., Xilouris, K.M., Paleologou, E.V. 279, 536

NGC 6905

Spectroscopy and shock modelling of the unusual bipolar outflow NGC 6905

Cuesta, L., Phillips, J.P., Mampaso, A. 267, 199

NGC 7027

High-resolution imaging of NGC 7027

Robberto, M., Clampin, M., Ligi, S., Paresce, F., Staude, H.J. 280, 241

NGC 7662

On high-temperature halos around planetary nebulae

Marten, H. 277, L9

Red Rectangle

Search for the 1.67 μ m PAH emission band: more upper limits

Siebenmorgen, R., Peletier, R.F. 279, L45

SAO 244567

SAO 244567: a post-AGB star which has turned into a planetary nebula within the last 40 years

Parthasarathy, M., Garcia-Lario, P., Pottasch, S.R., Manchado, A., Clavel, J., de Martino, D., Van de Steene, G.C.M., Sahu, K.C. 267, L19

Sh 2-71

The kinematic structure of the unusual outflow source Sh 2-71

Cuesta, L., Phillips, J.P. 270, 379

Te 137

Two new planetary nebulae in the galactic bulge

Cuisinier, F., Terzan, A., Acker, A. 277, 203

Te 138

- Two new planetary nebulae in the galactic bulge
Cuisinier, F., Terzan, A., Acker, A. **277**, 203

VV 47

- The spatio-kinematic structure of the CO envelopes of evolved planetary nebulae
Bachiller, R., Huggins, P.J., Cox, P., Forveille, T. **267**, 177

(Interstellar medium:) reflection nebulae

- A composite large-scale CO survey at high galactic latitudes in the second quadrant
Heihausen, A., Stacy, J.G., de Vries, H.W., Mebold, U., Thaddeus, P. **268**, 265
- VHE 65 a: an extremely red reflection nebula
Perrin, J.-M., Sivan, J.-P. **268**, 276
- The outflowing dust around η Carinae
Meaburn, J., Walsh, J.R., Wolstencroft, R.D. **268**, 283
- New Herbig-Haro objects and pre-main sequence stars in the star formation region NGC 7129
Miranda, L.F., Eiroa, C., Gómez de Castro, A.I. **271**, 564
- Environment dependence of interstellar extinction curves
Jenniskens, P., Greenberg, J.M. **274**, 439
- Very small dust grains in the circumstellar environment of Herbig Ae/Be stars
Natta, A., Prusti, T., Krügel, E. **275**, 527
- A chemical study of the photodissociation region NGC 7023
Fuente, A., Martín-Pintado, J., Cernicharo, J., Bachiller, R. **276**, 473

Interstellar medium: structure

- Microscale structure in the Norma dark cloud
Waldhausen, S., Marraco, H.G. **267**, 255
- The fragmentation of molecular clouds: critical (Jeans) mass in the vicinity of thermal instability and influence of visible extinction variations
Renard, M., Chièze, J.P. **267**, 549
- Angular source size measurements and interstellar scattering at 103 MHz using interplanetary scintillation
Janardhan, P., Alurkar, S.K. **269**, 119
- On the minimum length for magnetic waves in molecular clouds
Elmegreen, B.G., Fiebig, D. **270**, 397
- Fractal 3-D simulations of molecular clouds
Hetem Jr., A., Lépine, J.R.D. **270**, 451
- Fitting a clumpy cloud model to observations of CO and ^{13}CO transitions
Robert, C., Pagani, L. **271**, 282
- Ammonia clumps in the Orion and Cepheus clouds
Harju, J., Walmsley, C.M., Wouterloot, J.G.A. **273**, 351 (**98**, 51)
- A CO and IRAS study of Cometary Globule 12
White, G.J. **274**, L33
- High resolution H I observations of 3C 58
Roberts, D.A., Goss, W.M., Kalberla, P.M.W., Herbstmeier, U., Schwarz, U.J. **274**, 427
- Optical studies of interstellar material in low density regions of the Galaxy. I. A survey of interstellar Na I and Ca II absorption toward 57 distant stars
Sembach, K.R., Danks, A.C., Savage, B.D. **275**, 688 (**100**, 107)
- The W 80 dark cloud: a case study of fragmentation. II. The H I content
Feldt, C. **276**, 531

- High resolution Na D and K I interstellar profiles towards stars in the globular cluster M4

Kemp, S.N., Bates, B., Lyons, M.A. **278**, 542

- Large-scale structure of the R Coronae Australis cloud core

Harju, J., Haikala, L.K., Mattila, K., Mauersberger, R., Booth, R.S., Nordh, H.L. **278**, 569

- 1.3 mm emission in the disk of NGC 891: evidence of cold dust

Guélin, M., Zylka, R., Mezger, P.G., Haslam, C.G.T., Kreysa, E., Lemke, R., Sievers, A.W. **279**, L37

Interstellar medium: supernova remnants

- Viscous-thermal evolution of free accretion disks around new born neutron stars

Mineshige, S., Nomoto, K., Shigeyama, T. **267**, 95

- Mechanisms of Type Ia supernova models with different explosion mechanisms

Khokhlov, A., Müller, E., Höflich, P. **270**, 223

- Spectrophotometry of the continuum in the Crab Nebula

Véron-Cetty, M.P., Woltjer, L. **270**, 370

- Detection of optical emission in the area of G 127.1+0.5

Xilouris, K.M., Papamastorakis, J., Paleologou, E.V., Andredakis, Y., Haerendel, G. **270**, 393

- Investigation of astrophysical filaments and determination of their size

Rosso, F., Pelletier, G. **270**, 416

- The supernova remnant N 120 in the Large Magellanic Cloud

Rosado, M., Laval, A., Le Coarer, E., Boulesteix, J., Georgelin, Y.P., Marcelin, M. **272**, 541

- Compression in radiative shocks: switch and intermediate properties

Smith, M.D. **272**, 571

- Optical observations of high energy sources

Bignami, G.F., Caraveo, P.A., Mereghetti, S. **272**, 738 (**97**, 229)

- A spectral code for X-ray spectra of supernova remnants

Kaastra, J.S., Jansen, F.A. **272**, 754 (**97**, 873)

- X-rays from supernova remnants with particle acceleration

Dorfi, E.A., Böhringer, H. **273**, 251

- An atlas of supernova remnant candidates in Messier 31

Braun, R., Walterbos, R.A.M. **273**, 355 (**98**, 327)

- Infrared photometry and spectrophotometry of SN 1987 A. II. November 1987 to March 1991 observations

Bouchet, P., Danziger, I.J. **273**, 451

- CO and H I associated with the supernova remnant G 84.2-0.8?

Feldt, C., Green, D.A. **274**, 421

- The alpha-effect due to supernova explosions

Kaisig, M., Rüdiger, G., Yorke, H.W. **274**, 757

- X-ray emission from the collision of the ejecta with the ring nebula around SN 1987A

Suzuki, T., Shigeyama, T., Nomoto, K. **274**, 883

- N 63A: a supernova remnant within an H II region

Dickel, J.R., Milne, D.K., Junkes, N., Klein, U. **275**, 265

- The VLA-WSRT survey of M 33: statistical properties of a sample of optically selected supernova remnants

Duric, N., Viallefond, F., Goss, W.M., van der Hulst, J.M. **275**, 353 (**99**, 217)

- Cosmic rays. III. The cosmic ray spectrum between 1 GeV and 10^4 GeV and the radio emission from supernova remnants

Biermann, P.L., Strom, R.G. **275**, 659

- A new pulsar-supernova remnant association: PSR 2334+61 and G 114.3+0.3

Fürst, E., Reich, W., Seiradakis, J.H. **276**, 470

- G 76.9+1.0, a supernova remnant with unusual properties

Landecker, T.L., Higgs, L.A., Wendker, H.J. **276**, 522

- Stochastic particle acceleration at parallel astrophysical shock waves
Schlickeiser, R., Campeanu, A., Lerche, I. **276**, 614
 Submillimeter observations of the shocked molecular gas associated with the supernova remnant IC 443
van Dishoeck, E.F., Jansen, D.J., Phillips, T.G. **279**, 541

Line: formation

- Investigation of microturbulent magnetic fields in the solar photosphere by their Hanle effect in the Sr I 4607 Å line
Faurobert-Scholl, M. **268**, 765
 Models for the early-time spectral evolution of the 'standard' type Ia supernova 1990 N
Mazzali, P.A., Lucy, L.B., Danziger, I.J., Gouffes, C., Cappellaro, E., Turatto, M. **269**, 423
 The formation of helioseismology lines. IV. The Ni I 676.8 nm intercombination line
Bruls, J.H.M.J. **269**, 509
 The formation of interstellar molecular lines in a turbulent velocity field with finite correlation length. II. The case $\sigma_v \gg v_{\text{therm}}$
Kegel, W.H., Piehler, G., Albrecht, M.A. **270**, 407
 Balmer lines in cool dwarf stars. I. Basic influence of atmospheric models
Fuhrmann, K., Axer, M., Gehren, T. **271**, 451
 VLA observations of the 8 GHz rotationally excited OH lines toward W3(OH)
Baudry, A., Menten, K.M., Walmsley, C.M., Wilson, T.L. **271**, 552
 Multiplet oscillator strengths for excited atomic magnesium
Hoang-Binh, D. **272**, 752 (**97**, 769)
 Unified NLTE model atmospheres including spherical extension and stellar winds. IV. Improved line transfer and wind contamination of H, He profiles
Sellmaier, F., Puls, J., Kudritzki, R.P., Gabler, A., Gabler, R., Voels, S.A. **273**, 533
 Two-dimensional radiative transfer with partial frequency redistribution. II. Application to resonance lines in quiescent prominences
Paletou, F., Vial, J.C., Auer, L.H. **274**, 571
 The 777 nm oxygen triplet in the Sun and solar-type stars, and its use for abundance analysis
Kiselman, D. **275**, 269
 The hydrogen spectrum of model prominences
Gouttebroze, P., Heinzel, P., Vial, J.C. **275**, 355 (**99**, 513)
 The molecular cloud associated with the H II region RCW 34
Pagani, L., Heydari-Malayeri, M., Castets, A. **275**, 573
 The formation of the alkali resonance lines in cool atmospheres. I. Na I and K I in a sunspot umbra
Caccin, B., Gomez, M.T., Severino, G. **276**, 219
 The polarized spectrum of hydrogen in the presence of electric and magnetic fields
Casini, R., Landi Degl'Innocenti, E. **276**, 289
 The O I-Ly β fluorescence revisited and its implications on the clumping of hydrogen, O/H mixing and the pre-SN oxygen abundance in SN 1987A
Oliva, E. **276**, 415
 On the synthesis of resonance lines in dynamical models of structured hot-star winds
Puls, J., Owocki, S.P., Fullerton, A.W. **279**, 457

Line: identification

- The abundance of nitric oxide in TMC 1
Gerin, M., Viala, Y., Casoli, F. **268**, 212
 Nova Cygni 1992 in the post-maximum period
Annuik, K., Kolka, I., Leedj  r, L. **269**, L5

Models for the early-time spectral evolution of the 'standard' type Ia supernova 1990 N

- Mazzali, P.A., Lucy, L.B., Danziger, I.J., Gouffes, C., Cappellaro, E., Turatto, M.* **269**, 423
 A search for parent molecules at millimetre wavelengths in comets Austin 1990 V and Levy 1990 XX: upper limits for undetected species
Crovisier, J., Bockel  e-Morvan, D., Colom, P., Despois, D., Paubert, G. **269**, 527
 The optical spectrum of Nova GQ Muscae 1983 from 1984 to 1988
P  quignot, D., Petitjean, P., Boisson, C., Krautter, J. **271**, 219
 A revision of the solar abundance of dysprosium
Grevesse, N., Noels, A., Sauval, A.J. **271**, 587
 Radiative lifetime measurements in Dy II and the solar abundance of dysprosium
Bi  mont, E., Lowe, R.M. **273**, 665
 First tentative detection of the molecular oxygen isotopomer $^{16}\text{O}^{18}\text{O}$ in interstellar clouds
Pagani, L., Langer, W.D., Castets, A. **274**, L13
 Accurate wavelengths of near-infrared coronal lines from spectroscopic measurements of NGC 6302
Reconditi, M., Oliva, E. **274**, 662
 Highly-excited levels of Fe I obtained from laboratory and solar Fourier transform and grating spectra. I. Energy levels
Nave, G., Johansson, S. **274**, 961
 Long-term spectroscopic monitoring of P Cygni-type stars. I. Spectral atlas of P Cygni
Stahl, O., Mandel, H., Wolf, B., G  ng, T., Kaufer, A., Kneer, R., Szeifert, T., Zhao, F. **274**, 1016 (**99**, 165)
 Extreme ultra violet plasma diagnostic: a test using EUVE calibration data
Landini, M., Monsignor Fossi, B.C. **275**, L17
 Line blanketing by iron group elements in non-LTE model atmospheres for hot stars
Dreizler, S., Werner, K. **278**, 199
 The chemically peculiar star HD 37808
Leone, F., Catalano, F.A., Manfr  , M. **279**, 167
 A spectral atlas of the Herbig Ae star AB Aurigae. The visible domain from 391 to 874 nm
B  hm, T., Catala, C. **279**, 678 (**101**, 629)
 Highly-excited levels of Fe I obtained from laboratory and solar Fourier transform and grating spectra. II. Laboratory and solar identifications
Nave, G., Johansson, S. **280**, 346 (**102**, 269)
 The 1.5–1.7 μm spectrum of cool stars: line identifications, indices for spectral classification and the stellar content of the Seyfert galaxy NGC 1068
Origlia, L., Moorwood, A.F.M., Oliva, E. **280**, 536
- Line: profiles**
 Stark broadening of C IV lines
Sch  ning, T. **267**, 300
 The importance of plasma viscosity on X-ray line diagnostics of solar flares
Peres, G., Reale, F. **267**, 566
 Multiple-peaked line profiles from relativistic disks at high inclination angles
Matt, G., Perola, G.C., Stella, L. **267**, 643
 High velocity outflow from η Carinae
Damineli Neto, A., Viotti, R., Baratta, G.B., de Araujo, F.X. **268**, 183
 Centre-to-limb variation of the Stokes V asymmetry in solar magnetic flux tubes
B  nte, M., Solanki, S.K., Steiner, O. **268**, 736

Spectroscopic monitoring of active galactic nuclei. II. The Seyfert-1 galaxy NGC 3516

Wanders, I., van Groningen, E., Alloin, D., Aretxaga, I., Axon, D., de Bruyn, A.G., Clavel, J., Dietrich, M., Goad, M.R., Gondhalekar, P., Horne, K., Jackson, N., Kollatschny, W., Laurikainen, E., Lawrence, A., Masegosa, J., O'Brien, P.T., del Olmo, A., Penston, M.V., Perea, J., Pérez, E., Pérez-Fournon, I., Perry, J.J., Robinson, A., Rodríguez Espinosa, J.M., Stirpe, G.M., Tadhunter, C., Terlevich, R., Unger, S., Wagner, S.J., Williams, R. **269**, 39

The formation of helioseismology lines. IV. The Ni I 676.8 nm intercombination line

Bruls, J.H.M.J. **269**, 509

The 2140 cm⁻¹ band of frozen CO: laboratory experiments and astrophysical applications

Palumbo, M.E., Strazzulla, G. **269**, 568

Optical spectroscopy of the emission-line gas in the center of A 1795

Anton, K. **270**, 60

Monitoring of very rapid changes in the optical spectrum of SS433 in May/June 1987

Vermeulen, R.C., Murdin, P.G., van den Heuvel, E.P.J., Fabrika, S.N., Wagner, R.M., Margon, B., Hutchings, J.B., Schilizzi, R.T., van Kerkwijk, M.H., van den Hoek, L.B., Ott, E., Angebault, L.P., Miley, G.K., D'Odorico, S., Borisov, N. **270**, 204

Dynamics of the solar granulation: coherence of line parameters and their variation with the height

Hansmeier, A., Nesis, A., Mattig, W. **270**, 516

Fitting a clumpy cloud model to observations of CO and ¹³CO transitions

Robert, C., Pagani, L. **271**, 282

Line shapes in hydrogen opacities

Stehlé, C., Jacquemot, S. **271**, 348

Polarimetric line profiles from optically thin Thomson scattering circumstellar envelopes

Wood, K., Brown, J.C., Fox, G.K. **271**, 492

The atmospheric parameters of A and F stars. I. Comparison of various methods

Smalley, B., Dworetzky, M.M. **271**, 515

The fine structure of a chromospheric rosette

Tsiropoulou, G., Alissandrakis, C.E., Schmieder, B. **271**, 574

Simulated rotational band contours of C₆₀ and their comparison with some of the diffuse interstellar bands

Edwards, S.A., Leach, S. **272**, 533

The supernova remnant N 120 in the Large Magellanic Cloud

Rosado, M., Laval, A., Le Coarer, E., Boulesteix, J., Georgelin, Y.P., Marcelin, M. **272**, 541

High resolution Na D and H α line profiles of stars in the globular clusters M 22 and ω Centauri

Bates, B., Kemp, S.N., Montgomery, A.S. **272**, 755 (97, 937)

Line profile variations of rotating, pulsating stars

Aerts, C., Waelkens, C. **273**, 135

Some evidence for large-scale motions on the Sun

Bertello, L., Restaino, S.R. **273**, 260

The chromospheric temperature rise in solar magnetic flux tubes

Bruls, J.H.M.J., Solanki, S.K. **273**, 293

Evidence for a shock front in a flare loop of June 20, 1989

Graeter, M. **273**, 354 (98, 261)

Short-term line-profile variations and episodic mass loss in the Be star ζ Ophiuchi

Kambe, E., Ando, H., Hirata, R. **273**, 435

A possible cause for the variations in the "underlying" absorption-line profiles in the spectrum of P Cygni

Markova, N. **273**, 555

H α outbursts of μ Centauri: a clue to the Be phenomenon?

Hanuschik, R.W., Dachs, J., Baudzus, M., Thimm, G. **274**, 356

Complex structure in two diffuse interstellar bands

Jenniskens, P., Désert, F.-X. **274**, 465

Surface waves as the origin of the Evershed phenomenon

Biinte, M., Darconza, G., Solanki, S.K. **274**, 478

A study of the asymmetry of Fe I lines in the solar spectrum

Stathopoulou, M., Alissandrakis, C.E. **274**, 555

Diagnostics of non-thermal processes in chromospheric flares. I. H α and Ca II K line profiles of an atmosphere bombarded by 10–500 keV electrons

Fang, C., Hénoux, J.C., Gan, W.Q. **274**, 917

Diagnostics of non-thermal processes in chromospheric flares. II. H α and Ca II K line profiles for an atmosphere bombarded by 100 keV–1 MeV protons

Hénoux, J.C., Fang, C., Gan, W.Q. **274**, 923

Stark broadening of spectral lines of multicharged ions of astrophysical interest. VII. Al III lines

Dimitrijević, M.S., Sahal-Bréchet, S. **275**, 356 (99, 585)

Stark broadening of spectral lines of multicharged ions of astrophysical interest. VIII. VI lines

Dimitrijević, M.S., Sahal-Bréchet, S. **275**, 688 (100, 91)

Electron-impact widths of four- and five-times charged ion lines of astrophysical importance

Dimitrijević, M.S. **276**, 327 (100, 237)

On the radial velocity variations in Be stars

Savonije, G.J., Heemskerk, M.H.M. **276**, 409

Stark-Broadening parameters of spectral lines of astrophysical interest of neutral palladium

Dimitrijević, M.S. **277**, 363 (100, 593)

Atmospheric motions in classical Cepheid stars. I. The star of reference: δ Cephei

Breitfellner, M.G., Gillet, D. **277**, 524

Atmospheric motions in classical Cepheid stars. II. The pre-resonance Cepheids: η Aquilae, S Sagittae

Breitfellner, M.G., Gillet, D. **277**, 541

Atmospheric motions in classical Cepheid stars. III. A very large amplitude star: X Cygni

Breitfellner, M.G., Gillet, D. **277**, 553

Limits on mode identifications in rotating, non-radially pulsating stars

Reid, A.H.N., Aerts, C. **279**, L25

The chemically peculiar star HD 37808

Leone, F., Catalano, F.A., Manfrè, M. **279**, 167

Stark broadening of spectral lines of multicharged ions of astrophysical interest. IX. FvII lines

Dimitrijević, M.S., Sahal-Bréchet, S. **279**, 677 (101, 587)

Stark broadening of Zn II and Cd II spectral lines of astrophysical interest

Popović, L.Č., Vince, I., Dimitrijević, M.S. **280**, 343 (102, 17)

Stark widths of singly-ionized iron spectral lines

Purić, J., Djeniže, S., Srećković, A., Bukvić, S., Pivalica, S., Labat, J. **280**, 349 (102, 607)

Mode identification of pulsating stars from line profile variations with the moment method. A theoretical study of the accuracy of the method

De Pauw, M., Aerts, C., Waelkens, C. **280**, 493

Magnetic fields

Radio polarization surveys of Centaurus A (NGC 5128). I. The complete radio source at λ 6.3 cm

Junkes, N., Haynes, R.F., Harnett, J.I., Jauncey, D.L. **269**, 29

- A study of magnetic fields in Ap Si and He weak stars
Bohlender, D.A., Landstreet, J.D., Thompson, I.B. **269**, 355
- Alpha-effect and alpha-quenching
Rüdiger, G., Kichatinov, L.L. **269**, 581
- On the predictive power of the minimum energy condition. I. Isotropic steady-state configurations
Pohl, M. **270**, 91
- Magnetic flares near accreting black holes
Volwerk, M., van Oss, R.F., Kuijpers, J. **270**, 265
- Accretion disk flares in energetic radiation fields. A model for hard X-rays from black hole candidates
van Oss, R.F., van den Oord, G.H.J., Kuperus, M. **270**, 275
- Self-generated magnetic field by transverse plasmons in celestial bodies
Xiao-qing Li, Yue-hua Ma **270**, 534
- Evidence for magnetic reconnection in solar flares
Démoulin, P., van Driel-Gesztelyi, L., Schmieder, B., Hénoux, J.C., Csepura, G., Hagyard, M.J. **271**, 292
- A theoretical model for tilts of bipolar magnetic regions
D'Silva, S., Choudhuri, A.R. **272**, 621
- The influence of a strong magnetic field on electron capture in an accreting neutron star
Zigao Dai, Tan Lu, Qiuhe Peng **272**, 705
- Torus dynamos for galaxies and accretion disks. I. The axisymmetric $\alpha\omega$ -dynamo embedded into vacuum
Deinzer, W., Grosser, H., Schmitt, D. **273**, 405
- Rotational evolution of magnetic T Tauri stars with accretion discs
Cameron, A.C., Campbell, C.G. **274**, 309
- Magnetic buoyancy in accretion disks
Torkelsson, U. **274**, 675
- The alpha-effect due to supernova explosions
Kaisig, M., Rüdiger, G., Yorke, H.W. **274**, 757
- Erratum:* Radio polarization surveys of Centaurus A (NGC 5128). I. The complete radio source at λ 6.3 cm
Junkes, N., Haynes, R.F., Harnett, J.I., Jauncey, D.L. **274**, 1009
- A possible explanation of the origin of the second kind of magnetic fields of neutron stars
Luo, L.-F., Yang, G.-C., Lu, T. **275**, 192
- The formation of the alkali resonance lines in cool atmospheres. I. Na I and K I in a sunspot umbra
Caccin, B., Gomez, M.T., Severino, G. **276**, 219
- The polarized spectrum of hydrogen in the presence of electric and magnetic fields
Casini, R., Landi Degl'Innocenti, E. **276**, 289
- Polarization maps for the dark clouds B 227 and L 121
Bhatt, H.C., Jain, S.K. **276**, 507
- Magnetic buoyancy and the galactic dynamo
Hanasz, M., Lesch, H. **278**, 561
- On the removal of the 180° sign ambiguity in vector magnetograph measurements: the divergence-free method ($\nabla \cdot B=0$)
Li, J., Cupperman, S., Semel, M. **279**, 214
- Anomalous diffusion of cosmic rays across the magnetic field
Chuvpilo, L.G., Ptuskin, V.S. **279**, 278
- Extragalactic jets driven by Alfvén waves
Gonçalves, D.R., Jatenco-Pereira, V., Opher, R. **279**, 351
- Dynamics of slender fluxtubes in accretion disks. I. Basic theory
Schramkowski, G.P., Achterberg, A. **280**, 313
- Magnetohydrodynamics (MHD)**
- A two-fluid model for the solar wind
Massaglia, S. **267**, 595
- On the interchange instability of solar magnetic flux tubes. I. The influence of magnetic tension and internal gas pressure
Büntte, M., Steiner, O., Pizzo, V.J. **268**, 299
- Velocity distributions in spherical elliptical galaxies. II. Measuring line-of-sight stellar velocity distributions
Winsall, M.L., Freeman, K.C. **268**, 443
- Photospheric electric currents in solar magnetic elements
Lorrain, P., Koutchmy, S. **269**, 518
- Analytical studies of collimated winds. III. Nonrotating meridional MHD outflows
Trussoni, E., Tsinganos, K. **269**, 589
- Dynamo-driven accretion in galaxies
Rüdiger, G., Elstner, D., Schultz, M. **270**, 53
- Self-collimated jets beyond the light cylinder
Appl, S., Camenzind, M. **270**, 71
- On the minimum length for magnetic waves in molecular clouds
Elmegreen, B.G., Fiebig, D. **270**, 397
- Reconstruction of coronal magnetic configurations: the case of strongly nonlinear force-free fields
Cupperman, S., Bruma, C., Zoler, D., Semel, M. **270**, 480
- Vertical magnetic fields above the discs of spiral galaxies
Brandenburg, A., Donner, K.J., Moss, D., Shukurov, A., Sokoloff, D.D., Tuominen, I. **271**, 36
- The interchange instability of stellar magnetic flux tubes
Büntte, M., Saar, S.H. **271**, 167
- Evidence for magnetic reconnection in solar flares
Démoulin, P., van Driel-Gesztelyi, L., Schmieder, B., Hénoux, J.C., Csepura, G., Hagyard, M.J. **271**, 292
- Helicity fluctuations in mean field theory: an explanation for the variability of the solar cycle?
Hoyng, P. **272**, 321
- Compression in radiative shocks: switch and intermediate properties
Smith, M.D. **272**, 571
- Random velocity field corrections of the f -mode. I. Horizontal flows
Murawski, K., Roberts, B. **272**, 595
- Random velocity field corrections of the f -mode. II. Vertical and horizontal flow
Murawski, K., Roberts, B. **272**, 601
- Evidence for magnetic reconnection in large-scale magnetic structures in solar flares
Mandrini, C.H., Rovira, M.G., Démoulin, P., Hénoux, J.C., Machado, M.E., Wilkinson, L.K. **272**, 609
- On the interchange instability of solar magnetic flux tubes. II. The influence of energy transport effects
Büntte, M., Hasan, S., Kalkofen, W. **273**, 287
- Torus dynamos for galaxies and accretion disks. I. The axisymmetric $\alpha\omega$ -dynamo embedded into vacuum
Deinzer, W., Grosser, H., Schmitt, D. **273**, 405
- The circumstellar matter of the magnetic helium-strong star HD 37017
Leone, F. **273**, 509
- The modes of oscillation of a Menzel prominence
Joarder, P.S., Roberts, B. **273**, 642
- Magnetohydrodynamic waves in a potential coronal arcade
Oliver, R., Ballester, J.L., Hood, A.W., Priest, E.R. **273**, 647
- Surface waves as the origin of the Evershed phenomenon
Büntte, M., Darconza, G., Solanki, S.K. **274**, 478
- Distribution of magnetic energy in $\alpha\Omega$ -dynamos. III. A localized solar dynamo
van Geffen, J.H.G.M. **274**, 534
- The origin of intranetwork fields: a small-scale solar dynamo
Petrovay, K., Szakály, G. **274**, 543

Mean-field buoyancy

Kichatinov, L.L., Pipin, V.V. **274**, 647

On instabilities in magnetized accretion disks

Dubrulle, B., Knobloch, E. **274**, 667

Magnetic buoyancy in accretion disks

Torkelsson, U. **274**, 675

The structure of relativistic MHD jets: a solution to the nonlinear Grad-Shafranov equation

Appl, S., Camenzind, M. **274**, 699

MHD equilibria with flows in uniform gravity. II. A class of exact 2-D loop-like solutions

Tsinganos, K., Surlantzi, G., Priest, E.R. **275**, 613

The effect of magnetic fields on the macroscopic instability of the heliopause. I. Parallel interstellar magnetic fields

Ruderman, M.S., Fahr, H.J. **275**, 635

On the interchange instability of solar magnetic flux tubes. III. The influence of the magnetic field geometry

Biinte, M. **276**, 236

Conditions for the appearance of "bald patches" at the solar surface

Titov, V.S., Priest, E.R., Démoulin, P. **276**, 564

Magnetized accretion-ejection structures. I. General statements

Ferreira, J., Pelletier, G. **276**, 625

Magnetized accretion-ejection structures. II. Magnetic channeling around compact objects

Ferreira, J., Pelletier, G. **276**, 637

The modes of oscillation of a prominence. III. The slab in a skewed magnetic field

Joarder, P.S., Roberts, B. **277**, 225

Infrared lines as probes of solar magnetic features. VI. The thermal-magnetic relation and Wilson depression of a simple sunspot

Solanki, S.K., Walther, U., Livingston, W. **277**, 639

Identification and elimination of the residual ambiguity in the sign of observed photospheric magnetic fields

Cuperman, S., Li, J., Semel, M. **278**, 279

A flux tube-model for solar prominences

Degenhardt, U., Deinzer, W. **278**, 288

Equilibrium and stability of coronal force-free magnetic field configurations: the case of one ignorable variable

Bruma, C., Cuperman, S. **278**, 589

Current-sheet formation in two-dimensional coronal fields

Billinghurst, M.N., Craig, I.J.D., Sneyd, A.D. **279**, 589

Dynamics of slender fluxtubes in accretion disks. I. Basic theory

Schramkowski, G.P., Achterberg, A. **280**, 313

The continuous Alfvén spectrum of line-tied coronal loops

Halberstadt, G., Goedbloed, J.P. **280**, 647

Masers

Detailed radio morphology of the compact nebula K 3-35

Aaquist, O.B. **267**, 260

H₂O masers in nearby irregular galaxies

Becker, R., Henkel, C., Wilson, T.L., Wouterloot, J.G.A. **268**, 483

VLA observations of the 8 GHz rotationally excited OH lines toward W3(OH)

Baudry, A., Menten, K.M., Walmsley, C.M., Wilson, T.L. **271**, 552

Water masers associated with Herbig Ae/Be stars

Palla, F., Prusti, T. **272**, 249

Observation of methanol maser sources with the Arcetri 12 GHz receiver

Catarzi, M., Moscadelli, L., Panella, D. **273**, 352 (**98**, 127)

An OH mainline maser survey of IRAS circumstellar envelope sources

David, P., Le Squeren, A.M., Sivagnanam, P., Braz, M.A. **273**, 354 (**98**, 245)

IRAS sources beyond the solar circle. III. Observations of H₂O, OH, CH₃OH and CO

Wouterloot, J.G.A., Brand, J., Fiegle, K. **274**, 1013 (**98**, 589)

Search for hydroxyl in southern cold IRAS sources

Silva, A.M., Azcárate, I.N., Pöppel, W.G.L., Likkell, L. **275**, 510

An OH satellite line maser survey of cool IRAS sources and circumstellar envelope evolution

David, P., Le Squeren, A.M., Sivagnanam, P. **277**, 453

Monitoring OH/IR stars at the Galactic centre with the VLA

Van Langevelde, H.J., Janssens, A.M., Goss, W.M., Habing, H.J., Winnberg, A. **279**, 680 (**101**, 109)

Classification and statistical properties of galactic H₂O masers

Palagi, F., Cesaroni, R., Comoretto, G., Felli, M., Natale, V. **279**, 681 (**101**, 153)

Infrared and SiO maser observations of OH/IR stars

Nyman, L.-Å., Hall, P.J., Le Bertre, T. **280**, 551

Physical conditions for far-infrared laser emission from dense OH maser regions

Doel, R.C., Gray, M.D., Field, D., Jones, K.N. **280**, 592

H₂O masers associated with dense molecular clouds and ultracompact H II regions. II. The extended sample

Palla, F., Cesaroni, R., Brand, J., Caselli, P., Comoretto, G., Felli, M. **280**, 599

Meteoroids

Comets and meteorites: relationship (again?)

Padevč, V., Jakeš, P. **274**, 944

Atmospheric fragmentation of meteoroids

Cepelcha, Z., Spurný, P., Borovička, J., Keclíková, J. **279**, 615

A fireball spectrum analysis

Borovička, J. **279**, 627

Cometary dust trails and meteor storms

Kresák, Ľ. **279**, 646

Methods: analytical

Kinematical models of warped disks

Arnaboldi, M., Galletta, G. **268**, 411

Classification of the multiple deflection two point-mass gravitational lens models and application of catastrophe theory in lensing

Erdl, H., Schneider, P. **268**, 453

Cosmic antiprotons in the diffusion model. I. General properties in comparison with other models

Halm, I., Jansen, F., de Niem, D. **269**, 601

Recursive solution to Wiener's multi-channel time filtering

Rabl, G.K.F. **270**, 552

Analytic models for low-mass supernovae of type II

Blinnikov, S.I., Popov, D.V. **274**, 775

On the statistical behaviour of the position angle of linear polarization

Naghizadeh-Khousi, J., Clarke, D. **274**, 968

A new approach to Abel's integral operator and its application to stellar winds

Knill, O., Dgani, R., Vogel, M. **274**, 1002

Approximations for computing the internal radiation of a homogeneous molecular scattering atmosphere

Wauben, W.M.F., de Haan, J.F., Hovenier, J.W. **276**, 241

Series inversion of Abel equation for very peaked profiles: the $R^{1/4}$ -law

Bendinelli, O., Ciotti, L., Parmeggiani, G. **279**, 668

Temperature structure of a particle-heated magnetic atmosphere

Woelk, U., Beuermann, K. **280**, 169

Quick method for calculating energy dissipation in tidal interaction

Portegies Zwart, S.F., Meinen, A.T. **280**, 174

A generalized version of the Rankine-Hugoniot relations including ionization, dissociation, radiation and related phenomena

Nieuwenhuijzen, H., de Jager, C., Cuntz, M., Lobel, A., Achmad, L. **280**, 195

Methods: data analysis

Properties of the atmospheric noise in full-disk photometric observations of solar oscillations: implications for asteroseismology from the ground

Clette, F. **267**, 577

Spurious effects in the presence of a variable extinction coefficient in photoelectric photometry

Poretti, E., Zerbi, F. **268**, 369

Spectroscopic monitoring of active galactic nuclei. II. The Seyfert-1 galaxy NGC 3516

Wanders, I., van Groningen, E., Alloin, D., Aretxaga, I., Axon, D., de Bruyn, A.G., Clavel, J., Dietrich, M., Goad, M.R., Gondhalekar, P., Horne, K., Jackson, N., Kollatschny, W., Laurikainen, E., Lawrence, A., Masegosa, J., O'Brien, P.T., del Olmo, A., Penston, M.V., Perea, J., Pérez, E., Pérez-Fournon, I., Perry, J.J., Robinson, A., Rodríguez Espinosa, J.M., Stirpe, G.M., Tadhunter, C., Terlevich, R., Unger, S., Wagner, S.J., Williams, R. **269**, 39

A statistical assessment of zero-polarization catalogues

Clarke, D., Naghizadeh-Khouei, J., Simmons, J.F.L., Stewart, B.G. **269**, 617

Globular clusters in the Local Group of galaxies: a statistical approach

Covino, S., Pasinetti Fracassini, L.E. **270**, 83

Superresolution in pattern recognition and image restoration problems

Terebizh, V.Y. **270**, 543

Recursive solution to Wiener's multi-channel time filtering

Rabl, G.K.F. **270**, 552

Correction of spectra for telluric absorption lines with the help of a molecular data bank and high resolution forward modelling: H₂O lines around the sodium doublet at 589.5 nm

Lallement, R., Bertin, P., Chassefière, E., Scott, N. **271**, 734

Variable phase factors during the rotation of asteroid 51 Nemausa

Kahl Kristensen, L., Gammelgaard, P. **272**, 345

Wavelet analysis of cosmic velocity fields

Rauzy, S., Lachèze-Rey, M., Henriksen, R.N. **273**, 357

A new method for determining the ³He/⁴He ratio in the local interstellar medium

Lemoine, M., Vidal-Madjar, A., Ferlet, R. **273**, 611

The bandwidth of millisecond radio spikes in solar flares

Csillaghy, A., Benz, A.O. **274**, 487

Pulsational behaviours of the δ Scuti stars HD 18878 and HD 19279

Mantegazza, L., Poretti, E. **274**, 811

The probability-density function of solar p modes and the location of the excitation mechanism

Gabriel, M. **274**, 931

On the statistical behaviour of the position angle of linear polarization

Naghizadeh-Khouei, J., Clarke, D. **274**, 968

Digital image centering with the maximum likelihood method

Lu Chun-Lin **275**, 349

A new method for helioseismic data analysis

Baudin, F., Gabriel, A., Gibert, D. **276**, L1

HNS: a hybrid neural system and its use for the classification of stars

Klusck, M., Napiwotzki, R. **276**, 309

On the irregular light variation of RU Camelopardalis

Kolláth, Z., Szeidl, B. **277**, 62

Analysis of solar spike events by means of symbolic dynamics methods

Schwarz, U., Benz, A.O., Kurths, J., Witt, A. **277**, 215

Adaptive filtering in astronomical image processing. I. Basic considerations and examples

Lorenz, H., Richter, G.M., Capaccioli, M., Longo, G. **277**, 321

Search for short bursts of gamma-ray emission in spark chamber data: application to COS-B

Buccheri, R., Fry, W.F., Maccarone, M.C. **277**, 353

IRAS pointed observations data processing

Assendorp, R., Wesselius, P.R. **277**, 361 (**100**, 473)

The uniqueness of photometric solutions for spotted W Ursae Majoris binaries

Maceroni, C., van 't Veer, F. **277**, 515

Automated identification of OB associations in M 31

Magnier, E.A., Battinelli, P., Lewin, W.H.G., Haiman, Z., van Paradijs, J., Hasinger, G., Pietsch, W., Supper, R., Trümper, J. **278**, 36

Pulsational behaviour of 44 Tauri

Akan, M.C. **278**, 150

Field astrometry using orthogonal functions

Bienaymé, O. **278**, 301

High resolution kinematics of galactic globular clusters. II. On the significance of velocity dispersion measurements

Zaggia, S.R., Capaccioli, M., Piotto, G. **278**, 415

Fourier versus wavelet analysis of solar diameter variability

Vigouroux, A., Delache, P. **278**, 607

Shutter-free flatfielding for CCD detectors

Surma, P. **278**, 654

Limits on mode identifications in rotating, non-radially pulsating stars

Reid, A.H.N., Aerts, C. **279**, L25

On the removal of the 180° sign ambiguity in vector magnetograph measurements: the divergence-free method ($\nabla \cdot B=0$)

Li, J., Cupperman, S., Semel, M. **279**, 214

Hipparcos link with Carte du Ciel triple images

Dick, W.R., Tucholke, H.-J., Brosche, P., Galas, R., Geffert, M., Guibert, J. **279**, 267

Series inversion of Abel equation for very peaked profiles: the $R^{1/4}$ -law

Bendinelli, O., Ciotti, L., Parmeggiani, G. **279**, 668

The galaxy clustering correlation length

Martínez, V.J., Portilla, M., Jones, B.J.T., Paredes, S. **280**, 5

Full-disk helioseismic IRIS raw data calibration

Pallé, P.L., Fossat, E., Regulo, C., Loudagh, S., Schmider, F.X., Ehgamberdiev, S., Gelly, B., Grec, G., Khalikov, S., Lazrek, M., Sanchez, L. **280**, 324

Long-term photometry of variables at ESO. II. The second data catalogue (1986–1990)

Sterken, C., Manfroid, J., Anton, K., Barzowski, A., Bibo, A., Bruch, A., Burger, M., Duerbeck, H.W., Duemmler, R., Heck, A., Hensberge, H., Hiesgen, M., Inklaar, F., Jorissen, A., Juettner, A., Kinkel, U., Liu Zongli, Mekkadon, M.V., Ng, Y.K., Niarchos, P., Püttmann, M., Szeifert, T., Spiller, F., van Dijk, R., Vogt, N., Wanders, I. **280**, 344 (**102**, 79)

A global analysis method for astrolabe observations (*Text in French*)

Chollet, F. **280**, 675

Quasar – host galaxy detection using the cross-correlation technique

Boyce, P.J., Phillips, S., Davies, J.I. **280**, 694

Temporal window effects and their deconvolution from solar oscillation spectra

Lazrek, M., Hill, F. **280**, 704

Methods: miscellaneous

Surface adjustment of the KOSMA 3 m telescope using phase retrieval "holography"

Fuhr, W., Staguhn, J., Schulz, A., Hills, R.E., Lasenby, A.N., Lasenby, J., Miller, M., Schieder, R., Stutzki, J., Vowinkel, B., Winnewisser, G. **274**, 975

Methods: numerical

Lagrangian perturbation theory: a key-model for large-scale structure

Buchert, T. **267**, L51

Does artificial viscosity destroy prompt type-II supernova explosions?

Janka, H.-T., Zwerger, T., Mönchmeyer, R. **268**, 360

Spurious effects in the presence of a variable extinction coefficient in photoelectric photometry

Poretti, E., Zerbi, F. **268**, 369

On the capabilities and limits of smoothed particle hydrodynamics

Steinmetz, M., Müller, E. **268**, 391

Microlensing predictions for the Einstein Cross 2237+0305

Witt, H.J., Kayser, R., Refsdal, S. **268**, 501

The stellar dynamics of "box/peanut" galactic bulges. I. NGC 3079

Shaw, M., Wilkinson, A., Carter, D. **268**, 511

Frequency grids in radiative transfer problems

Stift, M.J., Moser, G. **268**, 617

A finite-difference adaptive grid method for computing the equilibria of rotating self-gravitating barotropic gases

Galkin, S.A., Denissov, A.A., Drozdov, V.V., Drozdova, O.M. **269**, 256

The formation of interstellar molecular lines in a turbulent velocity field with finite correlation length. II. The case $\sigma_v \gg V_{\text{therm}}$

Kegel, W.H., Piehler, G., Albrecht, M.A. **270**, 407

Fractal 3-D simulations of molecular clouds

Hetem Jr., A., Lépine, J.R.D. **270**, 451

Orbital, precessional, and insolation quantities for the Earth from -20 Myr to +10 Myr

Laskar, J., Joutel, F., Boudin, F. **270**, 522

Computational issues connected with 3D N-body simulations

Pfenniger, D., Friedli, D. **270**, 573

Structure and spectra of accretion disks in the innermost parts of active galaxies

Störzer, H. **271**, 25

The method of addition of layers for non-linear radiative transfer problems: practical applications

Magnan, C. **271**, 543

Dynamics of comet P/Maury

Benest, D., Gonczi, R., Maury, A. **271**, 621

Iterative methods used in overlap astrometric reduction techniques do not always converge

Rapaport, M., Ducourant, C., Colin, J., Le Campion, J.F. **271**, 645

A preprocessing strategy for helioseismic inversions

Christensen-Dalsgaard, J., Thompson, M.J. **272**, L1

Grand design and flocculent spiral structure in computer simulations with star formation and gas heating

Elmegreen, B.G., Thomasson, M. **272**, 37

Simulations of the evolution of galaxy clusters. II. Dynamics of the intra-cluster gas

Schindler, S., Müller, E. **272**, 137

A comparison between SPH and PPM: simulations of stellar collisions

Davies, M.B., Ruffert, M., Benz, W., Müller, E. **272**, 430

Asteroid dynamical families: a reliability test for two identification methods

Bendjoya, P., Cellino, A., Froeschlé, C., Zappalà, V. **272**, 651

Solution of the N-body problem expanded into Taylor series of high orders. Applications to the solar system over large time range

Le Guyader, C. **272**, 687

A spectral code for X-ray spectra of supernova remnants

Kaastra, J.S., Jansen, F.A. **272**, 754 (**97**, 873)

Effective radiative cooling in optically thin plasmas

Schmutzler, T., Tscharnuter, W.M. **273**, 318

Dynamic artificial opacity for flux limited diffusion in hydrodynamics

Dgani, R. **273**, 338

Radiation hydrodynamics in atmospheres of long-period variables

Feuchtinger, M.U., Dorfi, E.A., Höfner, S. **273**, 513

High-resolution simulation of deep pencil beam surveys - analysis of quasi-periodicity

Weiß, A.G., Buchert, T. **274**, 1

Synchrotron emission from bent shocked relativistic jets. I. Bent relativistic jets

Gómez, J.L., Alberdi, A., Marcaide, J.M. **274**, 55

Distribution of magnetic energy in $\alpha\Omega$ -dynamoes. III. A localized solar dynamo

van Geffen, J.H.G.M. **274**, 534

Doppler imaging with a CLEAN-like approach. I. A newly developed algorithm, simulations, and tests

Kürster, M. **274**, 851

On the statistical behaviour of the position angle of linear polarization

Naghizadeh-Khouei, J., Clarke, D. **274**, 968

Holographic measurement on Medicina radio telescope using artificial satellites at 11 GHz

Tarchi, D., Comoretto, G. **275**, 679

General study of group membership. II. Determination of nearby groups

Garcia, A.M. **275**, 687 (**100**, 47)

HNS: a hybrid neural system and its use for the classification of stars

Klusck, M., Napiwotzki, R. **276**, 309

Low orders of scattering in a plane-parallel homogeneous atmosphere

Wauben, W.M.F., de Haan, J. F., Hovenier, J.W. **276**, 589

Modelling non-axisymmetric bow shocks

Bandiera, R. **276**, 648

Adaptive filtering in astronomical image processing. I. Basic considerations and examples

Lorenz, H., Richter, G.M., Capaccioli, M., Longo, G. **277**, 321

Transition probabilities in the lithium sequence

Martin, I., Karwowski, J., Diercksen, G.H.F., Barrientos, C. **277**, 363 (**100**, 595)

Membership study in multidimensional data space with an application to the open cluster NGC 6823

Kuznetsov, V.I., Lazorenko, G.A., Lazorenko, P.F. **278**, 43

Line blanketing by iron group elements in non-LTE model atmospheres for hot stars

Dreizler, S., Werner, K. **278**, 199

Axisymmetric rotating relativistic bodies: a new numerical approach for "exact" solutions

Bonazzola, S., Gourgoulhon, E., Salgado, M., Marck, J.A. **278**, 421

The application of Monte Carlo methods to the synthesis of early-time supernovae spectra

Mazzali, P.A., Lucy, L.B. **279**, 447

On the numerical calculation of hydrodynamic shock waves in atmospheres by an FCT method

Schmitz, F., Fleck, B. **279**, 499

- The stellar dynamics of "box/peanut" galactic bulges. II. NGC 1055
Shaw, M. **280**, 33
- Collisions between a white dwarf and a main-sequence star. III. Simulations including the white dwarf surface
Ruffert, M. **280**, 141
- The high-velocity encounter of NGC 4782/4783: comparison of numerical experiments and observations
Madejsky, R., Bien, R. **280**, 383
- Methods: observational**
- Angular source size measurements and interstellar scattering at 103 MHz using interplanetary scintillation
Janardhan, P., Alurkar, S.K. **269**, 119
- Preliminary analysis of CCD observations of Saturn's satellites
Beurle, K., Harper, D., Jones, D.H.P., Murray, C.D., Taylor, D.B., Williams, I.P. **269**, 564
- Intraday variability in the BL Lac object 0954+658
Wagner, S.J., Witzel, A., Krichbaum, T.P., Wegner, R., Quirrenbach, A., Anton, K., Erkens, U., Khanna, R., Zensus, A. **271**, 344
- Image reconstruction by redundant spacing calibration with a 3-telescope optical interferometer: constraints on the delay lines
Ageorges, N., Cruzalèbes, P., Schumacher, G. **271**, 373
- Radio-interferometric imaging of very large objects: implications for array design
Cornwell, T.J., Holdaway, M.A., Uson, J.M. **271**, 697
- Improvements in the use of daytime star observations from a transit circle
Rafferty, T.J., Loader, B.R. **271**, 727
- Correction of spectra for telluric absorption lines with the help of a molecular data bank and high resolution forward modelling: H₂O lines around the sodium doublet at 589.5 nm
Lallement, R., Bertin, P., Chassefière, E., Scott, N. **271**, 734
- High resolution image restoration by stellar interferometry: the 5 beam optical simulator
Cruzalèbes, P., Schumacher, G., Robbe, S. **272**, 709
- Systematic deformations of the apparent almucantar as derived from Danjon astrolabes in Paris and Santiago de Chile
Pešek, I., Vondrák, J., Chollet, F., Nožl, F. **274**, 621
- Multi-site continuous spectroscopy. I. Overview of the MUSICOS 1989 campaign organization
Catala, C., Foing, B.H., Baudrand, J., Cao, H., Char, S., Chatzichristou, H., Cuby, J.G., Czarny, J., Dreux, M., Felenbok, P., Floquet, M., Guérin, J., Huang, L., Hubert-Delplace, A.M., Hubert, H., Huovelin, J., Jankov, S., Jiang, S., Li, Q., Neff, J.E., Petrov, P., Savanov, I., Shcherbakov, A., Simon, T., Tuominen, I., Zhai, D. **275**, 245
- Isoplanatism and high spatial resolution solar imaging
Irbah, A., Borgnino, J., Laclare, F., Merlin, G. **276**, 663
- Iterative image reconstruction from the bispectrum
Hofmann, K.-H., Weigelt, G. **278**, 328
- Shutter-free flatfielding for CCD detectors
Surma, P. **278**, 654
- Interferometric imaging with arrays of large optical telescopes in the multi-speckle mode
Reinheimer, T., Hofmann, K.-H., Weigelt, G. **279**, 322
- CO in the troposphere of Neptune: detection of the $J=1-0$ line in absorption
Guilloteau, S., Dutrey, A., Marten, A., Gautier, D. **279**, 661
- Methods: statistical**
- A new approach to the Malmquist bias
Luri, X., Mennessier, M.O., Torra, J., Figueras, F. **267**, 305
- Searching for embedded clusters in the Cepheus-Cassiopeia region
Pásztor, L., Tóth, L.V., Balázs, L.G. **268**, 108
- Stellar rotational velocities from the $V \sin i$ observations: inversion procedures and applications to open clusters
Gaigé, Y. **269**, 267
- A statistical assessment of zero-polarization catalogues
Clarke, D., Naghizadeh-Khouei, J., Simmons, J.F.L., Stewart, B.G. **269**, 617
- Globular clusters in the Local Group of galaxies: a statistical approach
Covino, S., Pasinetti Fracassini, L.E. **270**, 83
- On the coherent orientation of spins of spiral galaxies
Garrido, J.L., Battaner, E., Sánchez-Saavedra, M.L., Florido, E. **271**, 84
- Thermal emission from a rough surface: ray optics approach
Jämsä, S., Peltoniemi, J.I., Lumme, K. **271**, 319
- Helicity fluctuations in mean field theory: an explanation for the variability of the solar cycle?
Hoyng, P. **272**, 321
- On the statistical behaviour of the position angle of linear polarization
Naghizadeh-Khouei, J., Clarke, D. **274**, 968
- High-frequency variability of extragalactic radio sources. II. A statistical multi-frequency model of variability
Magdziarz, P., Machalski, J. **275**, 405
- Dynamical Voronoi tessellation. IV. The distribution of the asteroids
Zaninetti, L. **276**, 255
- Search for short bursts of gamma-ray emission in spark chamber data: application to COS-B
Buccheri, R., Fry, W.F., Maccarone, M.C. **277**, 353
- Field astrometry using orthogonal functions
Bienaymé, O. **278**, 301
- Fourier versus wavelet analysis of solar diameter variability
Vigouroux, A., Delache, P. **278**, 607
- The galaxy clustering correlation length
Martínez, V.J., Portilla, M., Jones, B.J.T., Paredes, S. **280**, 5
- A classification of 6479 asteroids into families by means of the wavelet clustering method
Bendjoya, P. **280**, 344 (**102**, 25)
- Quasar - host galaxy detection using the cross-correlation technique
Boyce, P.J., Philipps, S., Davies, J.I. **280**, 694
- Minor planets**
- Fragment jets from catastrophic break-up events and the formation of asteroid binaries and families
Martelli, G., Rothwell, P., Giblin, I., Smith, P.N., Di Martino, M., Farinella, P. **271**, 315
- Thermal emission from a rough surface: ray optics approach
Jämsä, S., Peltoniemi, J.I., Lumme, K. **271**, 319
- Variable phase factors during the rotation of asteroid 51 Nemausa
Kahl Kristensen, L., Gammelgaard, P. **272**, 345
- Asteroid dynamical families: a reliability test for two identification methods
Bendjoya, P., Cellino, A., Froeschlé, C., Zappalà, V. **272**, 651
- The Nordtvedt effect in the Trojan asteroids
Orellana, R.B., Vucetich, H. **273**, 313
- Ephemerides of the 48 Hipparcos minor planets for the year 1993
Bec-Borsenberger, A. **273**, 351 (**98**, 77)
- A survey of the dynamics of main-belt asteroids. I
Dvorak, R., Müller, P., Kallrath, J. **274**, 627
- Large orbital eccentricities and close encounters at the 2:1 resonance of a dynamical system modelling asteroidal motion
Varvoglis, H. **275**, 301

Dynamical Voronoi tessellation. IV. The distribution of the asteroids
Zaninetti, L. **276**, 255

The location of secular resonances close to the 2/1 commensurability
Morbidelli, A., Scholl, H., Froeschlé, C. **278**, 644

On the evolution of binary Earth-approaching asteroids
Farinella, P., Chauvineau, B. **279**, 251

Physical studies of asteroids. XXVI. Rotation periods and photoelectric photometry of asteroids 323, 350, 582, 1021 and 1866

Schober, H.J., Erikson, A., Hahn, G., Lagerkvist, C.-I. **279**, 676 (101, 499)

Physical studies of asteroids. XXVII. Photoelectric photometry of asteroids 14 Irene, 54 Alexandra and 56 Melete

Belskaya, I.N., Dovgopol, A.N., Erikson, A., Lagerkvist, C.-I., Oja, T. **279**, 676 (101, 507)

Spots on (4) Vesta and (7) Iris: large areas or little patches?

Hoffmann, M., Geyer, E.H. **279**, 678 (101, 621)

A classification of 6479 asteroids into families by means of the wavelet clustering method

Bendjoya, P. **280**, 344 (102, 25)

Miscellaneous

A list of possible interstellar communication channel frequencies for SETI

Blair, D.G., Zadnik, M.G. **278**, 669

Molecular data

Unidentified infrared emission bands: models for the carriers of the satellites of the 3.3 μm band

Talbi, D., Pauzat, F., Ellinger, Y. **268**, 805

The vis/UV spectrum of coals and the interstellar extinction curve

Papoular, R., Breton, J., Gensterblum, G., Nenner, I., Papoular, R.J., Pireaux, J.-J. **270**, L5

Simulated rotational band contours of C_{60} and their comparison with some of the diffuse interstellar bands

Edwards, S.A., Leach, S. **272**, 533

Einstein A-coefficients for rotational transitions in the ν_3 vibrationally excited state of SiC_2

Chandra, S., Sahu, A. **272**, 700

Optical constants of organic refractory residue

Jenniskens, P. **274**, 653

Table of the Lyman band system of molecular hydrogen

Abgrall, H., Roueff, E., Launay, F., Roncin, J.-Y., Subtil, J.-L. **279**, 336 (101, 273)

Table of the Werner band system of molecular hydrogen

Abgrall, H., Roueff, E., Launay, F., Roncin, J.-Y., Subtil, J.-L. **279**, 337 (101, 323)

Intensity of CaH lines in cool dwarfs

Barbuy, B., Schiavon, R.P., Gregorio-Hetem, J., Singh, P.D., Batalha, C. **279**, 338 (101, 409)

Molecular processes

Infrared and submillimetric emission lines from the envelopes of dark clouds

Le Bourlot, J., Pineau des Forêts, G., Roueff, E., Flower, D.R. **267**, 233

Formation of primordial molecules and thermal balance in the early Universe

Puy, D., Alecian, G., Le Bourlot, J., Léorat, J., Pineau des Forêts, G. **267**, 337

S-bearing molecules in O-rich circumstellar envelopes

Omont, A., Lucas, R., Morris, M., Guilloteau, S. **267**, 490

CN, C_2 , and dust observed in comet P/Grigg-Skjellerup from the ground eight hours after the Giotto encounter

Jockers, K., Kiselev, N.N., Boehnhardt, H., Thomas, N. **268**, L9

Search for LiH lines at high redshift

de Bernardis, P., Dubrovich, V., Encrenaz, P.J., Maoli, R., Masi, S., Mastrantonio, G., Melchiorri, B., Melchiorri, F., Signore, M., Tanzilli, P.E. **269**, 1

The abundance of CH^+ in translucent molecular clouds: further tests of shock models

Gredel, R., van Dishoeck, E.F., Black, J.H. **269**, 477

A search for parent molecules at millimetre wavelengths in comets Austin 1990 V and Levy 1990 XX: upper limits for undetected species

Crovisier, J., Bockelée-Morvan, D., Colom, P., Despois, D., Paubert, G. **269**, 527

Study of the A-X (0,0) band profile of CS in comets

Krishna Swamy, K.S., Tarafdar, S.P. **271**, 326

Experimental results for ion-molecule reactions of fullerenes: implications for interstellar and circumstellar chemistry

Petrie, S., Javahery, G., Bohme, D.K. **271**, 662

Carbon dust formation on interstellar grains

Jenniskens, P., Baratta, G.A., Kouchi, A., de Groot, M.S., Greenberg, J.M., Strazzulla, G. **273**, 583

The extended formaldehyde source in comet P/Halley

Meier, R., Eberhardt, P., Krankowsky, D., Hodges, R.R. **277**, 677

MgNC and the carbon-chain radicals in IRC+10216

Guélin, M., Lucas, R., Cernicharo, J. **280**, L19

A generalized version of the Rankine-Hugoniot relations including ionization, dissociation, radiation and related phenomena

Nieuwenhuijzen, H., de Jager, C., Cuntz, M., Lobel, A., Achmad, L. **280**, 195

Physical conditions for far-infrared laser emission from dense OH maser regions

Doel, R.C., Gray, M.D., Field, D., Jones, K.N. **280**, 592

Moon

Periodic orbits close to that of the Moon

Valsecchi, G.B., Perozzi, E., Roy, A.E., Steves, B.A. **271**, 308

Thermal emission from a rough surface: ray optics approach

Jämsä, S., Peltoniemi, J.I., Lumme, K. **271**, 319

Nuclear reactions, nucleosynthesis, abundances

Erratum: Stellar yields as a function of initial metallicity and mass limit for black hole formation

Maeder, A. **268**, 833

The Li^6/Li ratio and the stellar yield of ^7Li

Reeves, H. **269**, 166

On the photometric homogeneity of Type Ia Supernovae

Bravo, E., Domínguez, I., Isern, J., Canal, R., Höflich, P., Labay, J. **269**, 187

Hydrogen and helium shell flashes on massive accreting white dwarfs

José, J., Hernanz, M., Isern, J. **269**, 291

The contribution of Type Ia supernovae to the galactic iron abundances

Bravo, E., Isern, J., Canal, R. **270**, 288

The lithium-poor stars: additional observations

Spite, M., Molaro, P., François, P., Spite, F. **271**, L1

Type I planetary nebulae in the Large Magellanic Cloud: oxygen, sulphur, and argon abundances as tracers of chemical enrichment

de Freitas Pacheco, J.A., Barbuy, B., Costa, R.D.D., Idiart, T.E.P. **271**, 429

Solar neutrinos and nuclear reactions in the solar interior

Castellani, V., Degl'Innocenti, S., Fiorentini, G. **271**, 601

Constraints on the nucleosynthesis of Cu and Zn from models of chemical evolution of the Galaxy

Matteucci, F., Raiteri, C.M., Busso, M., Gallino, R., Gratton, R. **272**, 421

A two-dimensional thin hot plasma model for the distribution of ^{26}Al γ -rays

Malet, I., Montmerle, T., von Ballmoos, P. **272**, 732 (97, 137)

Massive stars as Galactic producers of ^{26}Al

Signore, M., Dupraz, C. **272**, 733 (97, 141)

First results from COMPTEL measurement of the ^{26}Al 1.8 MeV gamma-ray line from the Galactic center region

Diehl, R., Bennett, K., Bloemen, H., deBoer, H., Busetta, M., Collmar, W., Connors, A., den Herder, J.W., de Vries, C., Hermesen, W., Knödseder, J., Kuiper, L., Lichti, G.G., Lockwood, J., Macri, J., McConnell, M., Morris, D., Much, R., Ryan, J., Schönfelder, V., Simpson, G., Stacy, J.G., Steinle, H., Strong, A.W., Swanenburg, B.N., Varendorff, M., von Ballmoos, P. **272**, 735 (97, 181)

Hard X-ray and gamma-rays from supernovae

Woosley, S.E. **272**, 736 (97, 205)

An analysis of nuclear γ -ray line profiles from SN 1987 A

Grant, K.J., Dean, A.J. **272**, 736 (97, 211)

Preliminary results from COMPTEL on a search for gamma-ray line emission from SN 1991 T

Lichti, G.G., Bennett, K., Bloemen, H., de Boer, H., Busetta, M., Collmar, W., Connors, A., Diehl, R., van Dijk, R., den Herder, J.W., Hermesen, W., Kuiper, L., Lockwood, J., Macri, J., McConnell, M., Morris, D., Much, R., Ryan, J., Schönfelder, V., Simpson, G., Stacy, J.G., Steinle, H., Strong, A.W., Swanenburg, B.N., Varendorff, M., de Vries, C., Winkler, C. **272**, 736 (97, 215)

Gamma ray constraints on the Galactic supernova rate

Hartmann, D., The, L.-S., Clayton, D.D., Leising, M., Mathews, G., Woosley, S.E. **272**, 737 (97, 219)

Theoretical prediction of gamma-rays from SN 1991 T

Shigeyama, T., Kumagai, S., Yamaoka, H., Nomoto, K., Thielemann, F.-K. **272**, 737 (97, 223)

Hard emission from classical novae

Leising, M.D. **272**, 741 (97, 299)

Evolutionary sequences of stellar models with semiconvection and convective overshoot. I. $Z=0.008$

Alongi, M., Bertelli, G., Bressan, A., Chiosi, C., Fagotto, F., Greggio, L., Nasi, E. **272**, 754 (97, 851)

Detection of ^{57}Co γ -rays from SN 1987 A and prospect of X-ray observations of the pulsar with ASUKA

Kumagai, S., Nomoto, K., Shigeyama, T., Hashimoto, M., Itoh, M. **273**, 153

C and O nucleosynthesis in starbursts: the connection between distant mergers, the Galaxy, and the solar system

Henkel, C., Mauersberger, R. **274**, 730

On the galactic age problem: determination of the [Th/Eu] ratio in halo stars

François, P., Spite, M., Spite, F. **274**, 821

On the Li production by galactic C stars

Abia, C., Isern, J., Canal, R. **275**, 96

Lithium abundance in a few extremely metal-poor stars and strontium-poor stars

Spite, F., Spite, M. **279**, L9

The explosive thermonuclear formation of ^7Li revisited

Boffin, H.M.J., Paulus, G., Arnould, M., Mowlavi, N. **279**, 173

A fireball spectrum analysis

Borovička, J. **279**, 627

On the abundance spread in solar neighbourhood stars

François, P., Matteucci, F. **280**, 136

Contribution to the heavy-element abundances in the Galactic halo from s-process nucleosynthesis in massive stars

Baraffe, I., Takahashi, K. **280**, 476

Standard solar model: interplay between the equation of state, the opacity and the determination of the initial helium content

Charbonnel, C., Lebreton, Y. **280**, 666

Occultations

The occultation of 28 Sgr by Titan

Hubbard, W.B., Sicardy, B., Miles, R., Hollis, A.J., Forrest, R.W., Nicolson, I.K.M., Appleby, G., Beisker, W., Bittner, C., Bode, H.-J., Bruns, M., Denzau, H., Nezel, M., Riedel, E., Struckmann, H., Arlot, J.E., Roques, F., Sèvre, F., Thuillot, W., Hoffmann, M., Geyer, E.H., Buil, C., Colas, F., Lecacheux, J., Klotz, A., Thouvenot, E., Vidal, J.L., Carreira, E., Rossi, F., Blanco, C., Cristaldi, S., Nevo, Y., Reitsema, H.J., Brosch, N., Cernis, K., Zdanavicius, K., Wasserman, L.H., Huntén, D.M., Gautier, D., Lellouch, E., Yelle, R.V., Rizk, F., Flasar, F.M., Porco, C.C., Toubanc, D., Corredo, G. **269**, 541

Planets and satellites: general

The orbits of the major satellites of Saturn

Harper, D., Taylor, D.B. **268**, 326

Recursive solution to Wiener's multi-channel time filtering

Rabl, G.K.F. **270**, 552

Dust in the Martian atmosphere: polarimetric sensing

Ebisawa, S., Dollfus, A. **272**, 671

Approximations for computing the internal radiation of a homogeneous molecular scattering atmosphere

Wauben, W.M.F., de Haan, J.F., Hovenier, J.W. **276**, 241

The importance of distant stellar encounters in the dynamical evolution of planetary systems

Brunini, A. **276**, 261

Low orders of scattering in a plane-parallel homogeneous atmosphere

Wauben, W.M.F., de Haan, J.F., Hovenier, J.W. **276**, 589

Search for primitive life on a distant planet: relevance of O_2 and O_3 detections

Léger, A., Pirre, M., Marceau, F.J. **277**, 309

Approximations for the radiation inside an inhomogeneous planetary atmosphere

Wauben, W.M.F., de Haan, J.F., Hovenier, J.W. **277**, 666

Planets and satellites: individual: . . . (alphabetic order)

Deimos

The dynamics of Martian satellites from observations

Emelyanov, N.V., Vashkovyay, S.N., Nasonova, L.P. **267**, 634

Iris (7)

Spots on (4) Vesta and (7) Iris: large areas or little patches?

Hoffmann, M., Geyer, E.H. **279**, 678 (101, 621)

Jupiter

Seismological observations with a Fourier transform spectrometer: detection of Jovian oscillations

Mosser, B., Mékarnia, D., Maillard, J.P., Gay, J., Gautier, D., Delache, P. **267**, 604

Radio emission from Jupiter observed by Ulysses before and after encounter

Barrow, C.H., Lecacheux, A. **271**, 335

A new asymptotic formalism for Jovian seismology

Provost, J., Mosser, B., Berthomieu, G. **274**, 595

A catalogue of Jovian decametric radio observations from January 1988 to December 1990

Leblanc, Y., Gerbault, A., Denis, L., Lecacheux, A. **274**, 1012 (**98**, 529)

The Jovian left hand polarized radiation

Leblanc, Y., Bagenal, F., Dulk, G.A. **276**, 603

Mars

Dust in the Martian atmosphere: polarimetric sensing

Ebisawa, S., Dollfus, A. **272**, 671

Martian late-northern-winter polar hood opacities and non-visibility of a surface cap: 1975 and 1990 observations

Akabane, T., Iwasaki, K., Saito, Y., Narumi, Y. **277**, 302

Neptune

CO in the troposphere of Neptune: detection of the $J=1-0$ line in absorptionGuilloteau, S., Dutrey, A., Marten, A., Gautier, D. **279**, 661

Phobos

The dynamics of Martian satellites from observations

Emelyanov, N.V., Vashkovyakov, S.N., Nasonova, L.P. **267**, 634

Satellites of Saturn

Orbital elements of the eight major satellites of Saturn determined from a fit of their theories of motion to observations from 1886 to 1985

Dourneau, G. **267**, 292

The orbits of the major satellites of Saturn

Harper, D., Taylor, D.B. **268**, 326

Preliminary analysis of CCD observations of Saturn's satellites

Beurle, K., Harper, D., Jones, D.H.P., Murray, C.D., Taylor, D.B., Williams, I.P. **269**, 564

Saturn

A new asymptotic formalism for Jovian seismology

Provost, J., Mosser, B., Berthomieu, G. **274**, 595Observations and ephemeris of Saturn between 1970 and 1978 (*Text in French*)Sanchez, M., Débarbat, S., Chollet, F. **279**, 677 (**101**, 573)

Titan

The occultation of 28 Sgr by Titan

Hubbard, W.B., Sicardy, B., Miles, R., Hollis, A.J., Forrest, R.W., Nicolson, I.K.M., Appleby, G., Beisker, W., Bittner, C., Bode, H.-J., Bruns, M., Denzau, H., Nezel, M., Riedel, E., Struckmann, H., Arlot, J.E., Roques, F., Sèvre, F., Thuillot, W., Hoffmann, M., Geyer, E.H., Buil, C., Colas, F., Lecacheux, J., Klotz, A., Thouvenot, E., Vidal, J.L., Carreira, E., Rossi, F., Blanco, C., Cristaldi, S., Nevo, Y., Reitsema, H.J., Brosch, N., Cernis, K., Zdanavicius, K., Wasserman, L.H., Hunten, D.M., Gautier, D., Lellouch, E., Yelle, R.V., Rizk, F., Flasar, F.M., Porco, C.C., Toubanc, D., Coru-gedo, G. **269**, 541

Uranus

On the possibility of a major impact on Uranus in the past century

Tyson, N.D., Richmond, M.W., Woodhams, M., Ciotti, L. **275**, 630CO in the troposphere of Neptune: detection of the $J=1-0$ line in absorptionGuilloteau, S., Dutrey, A., Marten, A., Gautier, D. **279**, 661

Vesta (4)

Spots on (4) Vesta and (7) Iris: large areas or little patches?

Hoffmann, M., Geyer, E.H. **279**, 678 (**101**, 621)

51 Nemausa

Variable phase factors during the rotation of asteroid 51 Nemausa

Kahl Kristensen, L., Gammelgaard, P. **272**, 345

4769 Castalia

Fragment jets from catastrophic break-up events and the formation of asteroid binaries and families

Martelli, G., Rothwell, P., Giblin, I., Smith, P.N., Di Martino, M., Farinella, P. **271**, 315

Plasmas

Refractive interstellar scintillations and low frequency variability: a detailed analysis using measured source structures

Spangler, S.R., Eastman, W.A., Gregorini, L., Mantovani, F., Padrielli, L. **267**, 213

Stark broadening of C IV lines

Schöning, T. **267**, 300

A two-fluid model for the solar wind

Massaglia, S. **267**, 595

Numerical simulation of the aligned neutron-star magnetosphere

Zachariades, H.A. **268**, 705

Self-collimated jets beyond the light cylinder

Appl, S., Camenzind, M. **270**, 71

On the propagation of ideal, linear Alfvén waves in radially stratified stellar atmospheres and winds

Velli, M. **270**, 304

Investigation of astrophysical filaments and determination of their size

Rosso, F., Pelletier, G. **270**, 416

Self-generated magnetic field by transverse plasmons in celestial bodies

Xiao-qing Li, Yue-hua Ma **270**, 534

Line shapes in hydrogen opacities

Stehlé, C., Jacquemot, S. **271**, 348Cosmic rays. I. The cosmic ray spectrum between 10^4 GeV and $3 \cdot 10^9$ GeVBiermann, P.L. **271**, 649

A note on runaway electrons in the presence of kinetic Alfvén waves

de Assis, A.S., de Azevedo, C.A. **271**, 675

Observations of the solar wind and cometary ions during the encounter between Giotto and comet P/Grigg-Skjellerup

Johnstone, A.D., Coates, A.J., Huddleston, D.E., Jockers, K., Wilken, B., Borg, H., Gurgiolo, C., Winningham, J.D., Amata, E. **273**, L1

Effective radiative cooling in optically thin plasmas

Schmutzler, T., Tscharnuter, W.M. **273**, 318

The modes of oscillation of a Menzel prominence

Joarder, P.S., Roberts, B. **273**, 642

An equivalent-circuit representation of Alfvén waves

Narain, U., Kumar, S. **273**, 659

The interaction between the solar wind and the comet P/Halley atmosphere: observations versus theoretical predictions

Baranov, V.B., Lebedev, M.G. **273**, 695

Electromagnetic stability of electron-positron beams

Achatz, U., Schlickeiser, R. **274**, 165

Equilibria of charge-separated rigidly rotating relativistic magnetospheres

Neukirch, T. **274**, 319

Cosmic rays. IV. The spectrum and chemical composition above 10^4 GeV

Stanev, T., Biermann, P.L., Gaisser, T.K. **274**, 902

Stochastic particle acceleration at parallel astrophysical shock waves
Schlickeiser, R., Campeanu, A., Lerche, I. **276**, 614

Determination of the heliospheric shock and of the supersonic solar wind geometry by means of the interstellar wind parameters

Fahr, H.-J., Fichtner, H., Scherer, K. **277**, 249

Cosmic rays. II. Evidence for a magnetic rotator Wolf-Rayet star origin

Biermann, P.L., Cassinelli, J.P. **277**, 691

Diffusive particle acceleration by an ensemble of shock waves

Schneider, P. **278**, 315

On the radio wave group delay in the solar corona for the case of decimeter type III bursts

Itkina, M.A., Levin, B.N., Tsybko, Y.G. **279**, 235

Extragalactic jets driven by Alfvén waves

Gonçalves, D.R., Jatenco-Pereira, V., Opher, R. **279**, 351

Dynamics of slender fluxtubes in accretion disks. I. Basic theory

Schramkowski, G.P., Achterberg, A. **280**, 313

The continuous Alfvén spectrum of line-tied coronal loops

Halberstadt, G., Goedbloed, J.P. **280**, 647

Polarization

Polarization properties at 1.4 GHz of low luminosity radio galaxies

Parma, P., Morganti, R., Capetti, A., Fanti, R., de Ruiter, H.R. **267**, 31

The reddening and variability of XX Ophiuchi

Evans, A., Albinson, J.S., Barrett, P., Davies, J.K., Goldsmith, M.J., Hutchinson, M.G., Maddison, R.C. **267**, 161

Radio emission from RS CVn stars, Algol, and LSI+61°303

Estalella, R., Paredes, J.M., Rius, A., Martí, J., Peracaula, M. **268**, 178

Small-scale polarization structure in the diffuse galactic emission at 325 MHz

Wieringa, M.H., de Bruyn, A.G., Jansen, D., Brouw, W.N., Katgert, P. **268**, 215

The outflowing dust around η Carinae

Meaburn, J., Walsh, J.R., Wolstencroft, R.D. **268**, 283

Centre-to-limb variation of the Stokes V asymmetry in solar magnetic flux tubes

Büntje, M., Solanki, S.K., Steiner, O. **268**, 736

Investigation of microturbulent magnetic fields in the solar photosphere by their Hanle effect in the SrI 4607 Å line

Faurobert-Scholl, M. **268**, 765

Radio polarization surveys of Centaurus A (NGC 5128). I. The complete radio source at λ 6.3 cm

Junkes, N., Haynes, R.F., Harnett, J.I., Jauncey, D.L. **269**, 29

Polarization variability of extragalactic radio sources at 1435 MHz

Luna, H.G., Martínez, R.E., Combi, J.A., Romero, G.E. **269**, 77

A statistical assessment of zero-polarization catalogues

Clarke, D., Naghizadeh-Khoutei, J., Simmons, J.F.L., Stewart, B.G. **269**, 617

Visual polarization measurements in the Cepheus flare

Bel, N., Lafon, J.-P.J., Leroy, J.L. **270**, 444

Alignment of dust grains in ionized regions

Anderson, N., Watson, W.D. **270**, 477

A radio continuum study of the Magellanic Clouds. III. The magnetic field in the LMC

Klein, U., Haynes, R.F., Wielebinski, R., Meinert, D. **271**, 402

Polarimetric line profiles from optically thin Thomson scattering circumstellar envelopes

Wood, K., Brown, J.C., Fox, G.K. **271**, 492

A model for polarization of pulsar radiation

Gil, J.A., Kijak, J., Życki, P. **272**, 207

Linear polarimetry of Ap stars. I. A simple canonical model

Landolfi, M., Landi Degl'Innocenti, E., Landi Degl'Innocenti, M., Leroy, J.L. **272**, 285

On the rotation of polarization by a gravitational lens

Faraoni, V. **272**, 385

Delay mapping of the scattering medium in active galactic nuclei

Giannuzzo, E., Salvati, M. **272**, 411

Dust in the Martian atmosphere: polarimetric sensing

Ebisawa, S., Dollfus, A. **272**, 671

X-ray polarimetry of AGNs with SXP

Massaro, E., Matt, G., Perola, G.C., Costa, E., Piro, L., Soffitta, P. **272**, 747 (**97**, 399)

High spatial resolution spectro-polarimetry of small-scale magnetic elements on the Sun

Amer, M.A., Kneer, F. **273**, 304

Optical circular polarization in two BL Lacertae objects?

Valtaoja, L., Karttunen, H., Valtaoja, E., Shakhovskoy, N.M., Efimov, Y.S. **273**, 393

Synchrotron emission from bent shocked relativistic jets. I. Bent relativistic jets

Gómez, J.L., Alberdi, A., Marcaide, J.M. **274**, 55

A polarimetric investigation on interstellar dust within 50 pc from the Sun

Leroy, J.L. **274**, 203

UBVR polarimetry of the peculiar R CrB star V 854 Centauri

Rao, N.K., Raveendran, A.V. **274**, 330

Magnetic fields and thermal gas in M 83

Neininger, N., Beck, R., Sukumar, S., Allen, R.J. **274**, 687

On the statistical behaviour of the position angle of linear polarization

Naghizadeh-Khoutei, J., Clarke, D. **274**, 968

Polarized resonance line transfer with collisional redistribution

Mohan Rao, D., Rangarajan, K.E. **274**, 993

Erratum: Radio polarization surveys of Centaurus A (NGC 5128). I.

The complete radio source at λ 6.3 cm

Junkes, N., Haynes, R.F., Harnett, J.I., Jauncey, D.L. **274**, 1009

Uncombed fields as the source of the broad-band circular polarization of sunspots

Solanki, S.K., Montavon, C.A.P. **275**, 283

Constraints on matrices transforming Stokes vectors

Nagirner, D.I. **275**, 318

Compton scattering of polarized light: scattering matrix for isotropic electron gas

Nagirner, D.I., Poutanen, J. **275**, 325

Compton scattering of polarized light in two-phase accretion discs

Poutanen, J., Vilhu, O. **275**, 337

Polarization in low luminosity radio galaxies

Capetti, A., Morganti, R., Parma, P., Fanti, R. **275**, 354 (**99**, 407)

The effect of magnetic fields on the macroscopic instability of the heliopause. I. Parallel interstellar magnetic fields

Ruderman, M.S., Fahr, H.J. **275**, 635

Approximations for computing the internal radiation of a homogeneous molecular scattering atmosphere

Wauben, W.M.F., de Haan, J.F., Hovenier, J.W. **276**, 241

The polarized spectrum of hydrogen in the presence of electric and magnetic fields

Casini, R., Landi Degl'Innocenti, E. **276**, 289

Low orders of scattering in a plane-parallel homogeneous atmosphere

Wauben, W.M.F., de Haan, J.F., Hovenier, J.W. **276**, 589

Approximations for the radiation inside an inhomogeneous planetary atmosphere

Wauben, W.M.F., de Haan, J.F., Hovenier, J.W. **277**, 666

The long and short timescale polarization variability of the BL Lacertae object PKS 0109+224

Valtaoja, L., Karttunen, H., Efimov, Y.S., Shakhovskoy, N.M. **278**, 371

CO observations of a region of strongly polarized radio continuum emission in the SW arms of M 31

Berkhuijsen, E.M., Bajaja, E., Beck, R. **279**, 359

The intensity and state of polarization of light scattered in a spherical shell

Bosma, P.B. **279**, 572

Optical polarization of 1000 stars within 50 pc of the Sun

Leroy, J.L. **279**, 677 (**101**, 551)

Observations of 10 tailed radio sources at 10.6 GHz

Mack, K.-H., Feretti, L., Giovannini, G., Klein, U. **280**, 63

UBVRI linear and circular polarization of RS CVn-type binaries

Scaltriti, F., Pirolo, V., Coyne, G.V., Koch, R.H., Elias, N.M., Holenstein, B.D. **280**, 347 (**102**, 343)

Porous grains and polarization of light: the silicate features

Henning, T., Stognienko, R. **280**, 609

Spectral lines unaffected by instrumental polarization. I. Theory

Sánchez Almeida, J., Vela Villaloz, E. **280**, 688

Radiation mechanisms: miscellaneous

Radio spectra of selected Algol-type binaries

Umana, G., Triglio, C., Hjellming, R.M., Catalano, S., Rodonò, M. **267**, 126

Efficiency of gravitational radiation from axisymmetric and 3 D stellar collapse. I. Polytropic case

Bonazzola, S., Marck, J.A. **267**, 623

Spectral and temporal properties of the X-ray pulsar SMC X-1 at hard X-rays

Kunz, M., Gruber, D.E., Kendziorra, E., Kretschmar, P., Maisack, M., Mony, B., Stauber, R., Döbereiner, S., Englhauser, J., Pietsch, W., Reppin, C., Trümper, J., Efremov, V.V., Kaniovsky, A.S., Kuznetsov, A., Sunyaev, R. **268**, 116

Accretion disk flares in energetic radiation fields. A model for hard X-rays from black hole candidates

van Oss, R.F., van den Oord, G.H.J., Kuperus, M. **270**, 275

Spectrophotometry of the continuum in the Crab Nebula

Véron-Cetty, M.P., Woltjer, L. **270**, 370

Variability of the Seyfert galaxy Mkn 766 in the ROSAT All Sky Survey

Molendi, S., Maccacaro, T., Schaeidt, S. **271**, 18

Intraday variability in the BL Lac object 0954+658

Wagner, S.J., Witzel, A., Krichbaum, T.P., Wegner, R., Quirrenbach, A., Anton, K., Erken, U., Khanna, R., Zensus, A. **271**, 344

A radio continuum study of the Magellanic Clouds. III. The magnetic field in the LMC

Klein, U., Haynes, R.F., Wielebinski, R., Meinert, D. **271**, 402

A model for polarization of pulsar radiation

Gil, J.A., Kijak, J., Życki, P. **272**, 207

Synchrotron emission from bent shocked relativistic jets. I. Bent relativistic jets

Gómez, J.L., Alberdi, A., Marcaide, J.M. **274**, 55

Cyclotron and Zeeman spectroscopy of MR Serpenti in low and high states of accretion

Schwope, A.D., Beuermann, K., Jordan, S., Thomas, H.-C. **278**, 487

Superbubbles in galaxies: a new class of nonthermal sources

Bykov, A.M., Fleishman, G.D. **280**, L27

Temperature structure of a particle-heated magnetic atmosphere

Woelk, U., Beuermann, K. **280**, 169

Radiation mechanisms: thermal

Thermal emission from a rough surface: ray optics approach

Jämsä, S., Peltoniemi, J.I., Lumme, K. **271**, 319

Hard X-rays from binaries

Hameury, J.-M. **272**, 738 (**97**, 235)

Effective radiative cooling in optically thin plasmas

Schmutzler, T., Tscharnuter, W.M. **273**, 318

Numerically efficient expressions for nebular line cooling

Balick, B., Mellema, G., Frank, A. **275**, 588

The contribution of ion-atom radiative collisions to the opacity of the solar atmosphere

Mihajlov, A.A., Dimitrijević, M.S., Ignjatović, L.M. **276**, 187

Optical properties of dust aggregates. II. Angular dependence of scattered light

Kozasa, T., Blum, J., Okamoto, H., Mukai, T. **276**, 278

Radiative transfer

The effect of convection on two temperature soft photon Comptonized accretion disks

Meirelles Filho, C. **267**, 651

Visibility of solar p-modes

Toutain, T., Gouttebroze, P. **268**, 309

Frequency grids in radiative transfer problems

Stift, M.J., Moser, G. **268**, 617

Light curves of Type Ia supernova models with different explosion mechanisms

Khokhlov, A., Müller, E., Höflich, P. **270**, 223

The formation of interstellar molecular lines in a turbulent velocity field with finite correlation length. II. The case $\sigma_v \gg V_{\text{therm}}$

Kegel, W.H., Piehler, G., Albrecht, M.A. **270**, 407

Dust shell modelling of the carbon star IRAS 15194-5115

Lopez, B., Perrier, C., Mékarnia, D., Lefèvre, J., Gay, J. **270**, 462

Structure and spectra of accretion disks in the innermost parts of active galaxies

Störzer, H. **271**, 25

Thermal emission from a rough surface: ray optics approach

Jämsä, S., Peltoniemi, J.I., Lumme, K. **271**, 319

The method of addition of layers for non-linear radiative transfer problems: practical applications

Magnan, C. **271**, 543

Infrared observations of atomic hydrogen lines in ζ Puppis

Käufel, H.U. **272**, 452

Non-equilibrium radiative transfer in supernova theory: models of linear type II supernovae

Blinnikov, S.I., Bartunov, O.S. **273**, 106

On the interchange instability of solar magnetic flux tubes. II. The influence of energy transport effects

Büntje, M., Hasan, S., Kalkofen, W. **273**, 287

Two-dimensional radiative transfer with partial frequency redistribution. II. Application to resonance lines in quiescent prominences

Paletou, F., Vial, J.C., Auer, L.H. **274**, 571

Relativistic theory of radiative transfer: time-dependent radiation moment equations

Park, M.-G. **274**, 642

Diagnostics of non-thermal processes in chromospheric flares. I. H α and CaII K line profiles of an atmosphere bombarded by 10–500 keV electrons

Fang, C., Hénoux, J.C., Gan, W.Q. **274**, 917

Diagnostics of non-thermal processes in chromospheric flares. II. H α and CaII K line profiles for an atmosphere bombarded by 100 keV–1 MeV protons

Hénoux, J.C., Fang, C., Gan, W.Q. **274**, 923

- Polarized resonance line transfer with collisional redistribution
 Mohan Rao, D., Rangarajan, K.E. **274**, 993
- Constraints on matrices transforming Stokes vectors
 Nagirner, D.I. **275**, 318
- Compton scattering of polarized light: scattering matrix for isotropic electron gas
 Nagirner, D.I., Poutanen, J. **275**, 325
- The hydrogen spectrum of model prominences
 Gouttebroze, P., Heinzel, P., Vial, J.C. **275**, 355 (**99**, 513)
- Approximations for computing the internal radiation of a homogeneous molecular scattering atmosphere
 Wauben, W.M.F., de Haan, J.F., Hovenier, J.W. **276**, 241
- The polarized spectrum of hydrogen in the presence of electric and magnetic fields
 Casini, R., Landi Degl'Innocenti, E. **276**, 289
- Anisotropic light scattering in a spherical shell
 Bosma, P.B. **276**, 303
- The O I-Ly β fluorescence revisited and its implications on the clumping of hydrogen, O/H mixing and the pre-SN oxygen abundance in SN 1987A
 Oliva, E. **276**, 415
- Low orders of scattering in a plane-parallel homogeneous atmosphere
 Wauben, W.M.F., de Haan, J. F., Hovenier, J.W. **276**, 589
- HC₉N from the envelopes of IRC+10216 and CRL2688
 Truong-Bach, D., Graham, D., Nguyen-Q-Rieu **277**, 133
- On the origin of penumbral line asymmetries
 Degenhardt, D. **277**, 235
- Radiative transfer in the interplanetary medium at Lyman alpha
 Quémerais, E., Bertaux, J.-L. **277**, 283
- A fast non-LTE code for expanding atmospheres: a test of the validity of the Sobolev approximation
 de Koter, A., Schmutz, W., Lamers, H.J.G.L.M. **277**, 561
- Approximations for the radiation inside an inhomogeneous planetary atmosphere
 Wauben, W.M.F., de Haan, J.F., Hovenier, J.W. **277**, 666
- Radiation-hydrodynamic waves in an optically non-grey atmosphere
 Zhugzhda, Y.D., Dzhalilov, N.S., Staude, J. **278**, L9
- Optical and infrared observations of two oxygen-rich Miras: dust shell modelling as a function of phase
 Le Sidaner, P., Le Bertre, T. **278**, 167
- Line blanketing by iron group elements in non-LTE model atmospheres for hot stars
 Dreizler, S., Werner, K. **278**, 199
- Evidence for siphon flows with shocks in solar magnetic flux tubes
 Degenhardt, D., Solanki, S.K., Montesinos, B., Thomas, J.H. **279**, L29
- The application of Monte Carlo methods to the synthesis of early-time supernovae spectra
 Mazzali, P.A., Lucy, L.B. **279**, 447
- On the synthesis of resonance lines in dynamical models of structured hot-star winds
 Puls, J., Owocki, S.P., Fullerton, A.W. **279**, 457
- HCN hyperfine anomalies in dark clouds
 González-Alfonso, E., Cernicharo, J. **279**, 506
- The intensity and state of polarization of light scattered in a spherical shell
 Bosma, P.B. **279**, 572
- The influence of ice-coated grains on protostellar spectra
 Preibisch, T., Ossenkopf, V., Yorke, H.W., Henning, T. **279**, 577
- Temperature structure of a particle-heated magnetic atmosphere
 Woelk, U., Beuermann, K. **280**, 169
- SiC in circumstellar shells around C stars
 Lorenz-Martins, S., Lefèvre, J. **280**, 567
- Radio continuum: galaxies**
- Linear size evolution of extended quasars
 Chyży, K.T., Zięba, S. **267**, L27
- Polarization properties at 1.4 GHz of low luminosity radio galaxies
 Parma, P., Morganti, R., Capetti, A., Fanti, R., de Ruiter, H.R. **267**, 31
- No molecular gas in M 87: just a monster?
 Braine, J., Wiklind, T. **267**, L47
- Synchrotron radiation from the jet of 3C 273. II. The radio structure and polarization
 Conway, R.G., Garrington, S.T., Perley, R.A., Biretta, J.A. **267**, 347
- High-frequency variability of extragalactic radio sources. I. A dependence of the apparent variability on wavelength, time base of observations, and rate of time sampling
 Machalski, J., Magdziarz, P. **267**, 363
- A comprehensive study of the peculiar spiral galaxy NGC 1808. II. VLA H I line observations
 Koribalski, B., Dahlem, M., Mebold, U., Brinks, E. **268**, 14
- Erratum: Spectral monitoring of powerful radio sources
 Hooimeyer, J.R.A., Miley, G.K., de Waard, G.J., Schilizzi, R.T. **268**, 831
- Radio polarization surveys of Centaurus A (NGC 5128). I. The complete radio source at λ 6.3 cm
 Junkes, N., Haynes, R.F., Harnett, J.I., Jauncey, D.L. **269**, 29
- Polarization variability of extragalactic radio sources at 1435 MHz
 Luna, H.G., Martínez, R.E., Combi, J.A., Romero, G.E. **269**, 77
- Angular source size measurements and interstellar scattering at 103 MHz using interplanetary scintillation
 Janardhan, P., Alurkar, S.K. **269**, 119
- The radio and optical structure of 3C 66 B
 Jackson, N., Sparks, W.B., Miley, G.K., Macchetto, F. **269**, 128
- Self-collimated jets beyond the light cylinder
 Appl, S., Camenzind, M. **270**, 71
- Vertical magnetic fields above the discs of spiral galaxies
 Brandenburg, A., Donner, K.J., Moss, D., Shukurov, A., Sokoloff, D.D., Tuominen, I. **271**, 36
- The superluminal character of the compact steep spectrum quasar 3C 216
 Venturi, T., Pearson, T.J., Barthel, P.D., Herbig, T. **271**, 65
- A sample of gigahertz-peaked-spectrum radio sources: List 3
 Gopal-Krishna, Spoelstra, T.A.T. **271**, 101
- A radio continuum study of the Magellanic Clouds. III. The magnetic field in the LMC
 Klein, U., Haynes, R.F., Wielebinski, R., Meinert, D. **271**, 402
- An optical identification of radio sources in the field of the cluster of galaxies Abell 2218
 Le Borgne, J.F., Vilchez-Gómez, R. **271**, 425
- The optical identification of the luminous radio galaxy 0409-752
 Alvarez, H., Aparici, J., May, J., Navarrete, M. **271**, 435
- Distribution and motions of H I in the ringed galaxy NGC 4736
 Mulder, P.S., van Driel, W. **272**, 63
- Rotation of stars and gas in M 82
 McKeith, C.D., Castles, J., Greve, A., Downes, D. **272**, 98
- Extragalactic ultra-high energy cosmic rays. I. Contribution from hot spots in FR-II radio galaxies
 Rachen, J.P., Biermann, P.L. **272**, 161
- Radio spectra of quasars. III
 Quintana, Z.M., Cersosimo, J.C. **272**, 748 (**97**, 435)
- Spectroscopy of 1 Jy and S5 radio source identifications. II
 Stickle, M., Kühr, H., Fried, J.W. **272**, 749 (**97**, 483)
- Ionized gas and intrinsic magnetic fields in the spiral galaxy NGC 6946
 Ehle, M., Beck, R. **273**, 45

- The radio state of extragalactic γ -ray sources detected by CGRO
 Reich, W., Steppe, H., Schlickeiser, R., Reich, P., Pohl, M., Reuter, H.P., Kanbach, G., Schönfelder, V. **273**, 65
- Extragalactic ultra-high energy cosmic rays. II. Comparison with experimental data
 Rachen, J.P., Stanev, T., Biermann, P.L. **273**, 377
- Electromagnetic stability of electron-positron beams
 Achatz, U., Schlickeiser, R. **274**, 165
- Magnetic fields and thermal gas in M 83
 Neininger, N., Beck, R., Sukumar, S., Allen, R.J. **274**, 687
- The structure of relativistic MHD jets: a solution to the nonlinear Grad-Shafranov equation
 Appl, S., Camenzind, M. **274**, 699
- 3C 138: multi-frequency observations of the suggested "naked-jet" compact steep-spectrum source
 Akujor, C.E., Spencer, R.E., Zhang, F.J., Fanti, C., Ludke, E., Garrington, S.T. **274**, 752
- Erratum: Radio polarization surveys of Centaurus A (NGC 5128). I. The complete radio source at λ 6.3 cm
 Junkes, N., Haynes, R.F., Harnett, J.I., Jauncey, D.L. **274**, 1009
- The complete sample of 1 Jy BL Lacertae objects. II. Observational data
 Stickel, M., Fried, J.W., Kühr, H. **274**, 1011 (**98**, 393)
- The optical and radio spectrum of the radio-selected high redshift quasar S4 1745+624
 Stickel, M. **275**, 49
- The VLA-WSRT survey of M 33: statistical properties of a sample of optically selected supernova remnants
 Duric, N., Viallefond, F., Goss, W.M., van der Hulst, J.M. **275**, 353 (**99**, 217)
- Polarization in low luminosity radio galaxies
 Capetti, A., Morganti, R., Parma, P., Fanti, R. **275**, 354 (**99**, 407)
- The Miyun 232 MHz Survey. I. Fields centred at: α : 00^h, δ : 41°12' and α : 07^h, δ : 35°00'
 Zhang, X., Zhen, Y., Chen, H., Wang, S. **275**, 356 (**99**, 545)
- First 43 GHz VLBI-observations with the 30-m radio telescope at Pico Veleta
 Krichbaum, T.P., Witzel, A., Graham, D.A., Standke, K.J., Schwartz, R., Lochner, O., Schalinski, C.J., Greve, A., Steppe, H., Brunswig, W., Butin, G., Hein, H., Navarro, S., Peñalver, J., Grewing, M., Booth, R.S., Colomer, F., Rönnäng, B.O. **275**, 375
- Particle acceleration by multiple shocks at the hot spots of extragalactic radio sources
 Anastasiadis, A., Vlahos, L. **275**, 427
- Some statistical results for extragalactic radio jets
 Fan, J.H., Xie, G.Z., Huang, Z.H. **275**, 688 (**100**, 103)
- Optical positions and 327 MHz flux-densities of UGC galaxies in selected Westerbork fields
 Oly, C., Israel, F.P. **276**, 327 (**100**, 263)
- Spectroscopic observations of radio source identifications from the 1 Jy, S4 and S5 surveys. III
 Stickel, M., Kühr, H. **276**, 330 (**100**, 395)
- Recent activity in the optical and radio lightcurves of the blazar 3C 345: indications for a "lighthouse effect" due to jet rotation
 Schramm, K.-J., Borgeest, U., Camenzind, M., Wagner, S.J., Bade, N., Dreissigacker, O., Heidt, J., Hoff, W., Kayser, R., Kühl, D., von Linde, J., Linnert, M.D., Pelt, J., Schramm, T., Sillanpää, A., Takalo, L.O., Valtaoja, E., Vigotti, M. **278**, 391
- 1.3 mm emission in the disk of NGC 891: evidence of cold dust
 Guélin, M., Zylka, R., Mezger, P.G., Haslam, C.G.T., Kreysa, E., Lemke, R., Sievers, A.W. **279**, L37
- The milliarcsecond structure of the quasar 3C 279
 Carrara, E.A., Abraham, Z., Unwin, S.C., Zensus, J.A. **279**, 83
- Radio galaxies of intermediate strength. II. VLA observations
 Bondi, M., Gregorini, L., Padrielli, L., Parma, P. **279**, 338 (**101**, 431)
- CO observations of a region of strongly polarized radio continuum emission in the SW arms of M 31
 Berkhuijsen, E.M., Bajaja, E., Beck, R. **279**, 359
- The spectral characteristics of the RATAN-600 RC-catalog sources
 Bursov, N.N., Chepurinov, A.V., Lipovka, N.M., Soboleva, N.S., Temirova, A.V. **279**, 675 (**101**, 447)
- Optical spectroscopy of 1 Jy, S4 and S5 radio sources. IV
 Stickel, M., Kühr, H. **279**, 676 (**101**, 521)
- Observations of 10 tailed radio sources at 10.6 GHz
 Mack, K.-H., Feretti, L., Giovannini, G., Klein, U. **280**, 63
- A 100 GHz map of 3C 446
 Lerner, M.S., Bååth, L.B., Inoue, M., Padin, S., Rogers, A.E.E., Wright, M.C.H., Zensus, A., Backer, D.C., Booth, R.S., Carlstrom, J.E., Emerson, D.T., Hirabayashi, H., Hodges, M.W., Jewell, P., Kobayashi, H., Kus, A.J., Moran, J.M., Morimoto, M., Plambeck, R.L., Rantakyrö, F.T., Woody, D. **280**, 117
- Deep optical identifications of compact radio sources selected from the GB/GB2 sample
 Machalski, J., Magdziarz, P. **280**, 346 (**102**, 315)
- Millimeter continuum measurements of extragalactic radio sources (III)
 Steppe, H., Paubert, G., Sievers, A., Reuter, H.P., Greve, A., Liechti, S., Le Floch, B., Brunswig, W., Menéndez, C., Sanchez, S. **280**, 350 (**102**, 611)
- Radio continuum: general**
- Refractive interstellar scintillations and low frequency variability: a detailed analysis using measured source structures
 Spangler, S.R., Eastman, W.A., Gregorini, L., Mantovani, F., Padrielli, L. **267**, 213
- High-frequency variability of extragalactic radio sources. II. A statistical multi-frequency model of variability
 Magdziarz, P., Machalski, J. **275**, 405
- G 76.9+1.0, a supernova remnant with unusual properties
 Landecker, T.L., Higgs, L.A., Wendker, H.J. **276**, 522
- Optical counterpart of galactic plane variable radio sources
 Paredes, J.M., Martí, J., Jordi, C., Trullols, E., Peracaula, M. **280**, 347 (**102**, 381)
- Radio continuum: interstellar**
- Detailed radio morphology of the compact nebula K 3-35
 Aaquist, O.B. **267**, 260
- Small-scale polarization structure in the diffuse galactic emission at 325 MHz
 Wieringa, M.H., de Bruyn, A.G., Jansen, D., Brouw, W.N., Katgert, P. **268**, 215
- Ammonia clumps in the Orion and Cepheus clouds
 Harju, J., Walmsley, C.M., Wouterloot, J.G.A. **273**, 351 (**98**, 51)
- The radio continuum morphology of the Orion Nebula: from 10' to 0.1" resolution
 Felli, M., Churchwell, E., Wilson, T.L., Taylor, G.B. **273**, 352 (**98**, 137)
- Radio continuum observations of southern planetary nebulae candidates
 Van de Steene, G.C.M., Pottasch, S.R. **274**, 895
- A second phase of star formation in the Serpens core
 Casali, M.M., Eiroa, C., Duncan, W.D. **275**, 195
- Anatomy of the Sagittarius complex. III. Morphology and characteristics of the Sgr B2 giant molecular cloud
 Gordon, M.A., Berkemann, U., Mezger, P.G., Zylka, R., Haslam, C.G.T., Kreysa, E., Sievers, A., Lemke, R. **280**, 208

Radio continuum: solar system

Radio emission from Jupiter observed by Ulysses before and after encounter

Barrow, C.H., Lecacheux, A. **271**, 335

The Jovian left hand polarized radiation

Leblanc, Y., Bagenal, F., Dulk, G.A. **276**, 603

Radio continuum: stars

The radio counterpart of the Z source GX 340+0

Penninx, W., Zwarthoed, G.A.A., van Paradijs, J., van der Klis, M., Lewin, W.H.G., Dotani, T. **267**, 92

Radio observations of the low-mass X-ray binary 2S 0921-630

Zwarthoed, G.A.A., Stewart, R., Penninx, W., van Paradijs, J., van der Klis, M., Roy, A.L., Amy, S.W. **267**, 101

Radio spectra of selected Algol-type binaries

Umana, G., Trigilio, C., Hjellming, R.M., Catalano, S., Rodonò, M. **267**, 126

Radio emission from RS CVn stars, Algol, and LSI+61°303

Estalella, R., Paredes, J.M., Rius, A., Martí, J., Peracaula, M. **268**, 178

Millimetre observations of old novae

Weight, A., Evans, A., Albinson, J.S., Krautter, J. **268**, 294

Periodic radio emission from the helium-strong stars HD 37017 and σ Ori E

Leone, F., Umana, G. **268**, 667

High resolution radio map of the X-ray binary LSI +61°303

Massi, M., Paredes, J.M., Estalella, R., Felli, M. **269**, 249

A series of VLBI images of SS 433 during the outbursts in May/June 1987

Vermeulen, R.C., Schilizzi, R.T., Spencer, R.E., Romney, J.D., Fejes, I. **270**, 177

Daily spectra of radio flares from SS 433 in May/June 1987

Vermeulen, R.C., McAdam, W.B., Trushkin, S.A., Facondi, S.R., Fiedler, R.L., Hjellming, R.M., Johnston, K.J., Corbin, J. **270**, 189

VLA observations of the hard X-ray sources 1E 1740.7-2942 and GRS 1758-258

Mirabel, I.F., Rodríguez, L.F., Cordier, B., Paul, J., Lebrun, F. **272**, 735 (97, 193)

Optical positions of selected radio stars from circumzenithal observations

Pešek, I. **272**, 752 (97, 777)

Cold dust around Herbig-Haro energy sources: a 1300 μ m survey

Reipurth, B., Chini, R., Krügel, E., Kreysa, E., Sievers, A. **273**, 221

The radio continuum morphology of the Orion Nebula: from 10' to 0.1'' resolution

Felli, M., Churchwell, E., Wilson, T.L., Taylor, G.B. **273**, 352 (98, 137)

Erratum: Radio and X-ray emission from main-sequence K stars

Güdel, M. **273**, 719

Dynamic spectra of radio sources from 4.5 to 5.0 GHz

Lecacheux, A., Rosolen, C., Davis, M., Bookbinder, J., Bastian, T.S., Dulk, G.A. **275**, 670

A 1.3 mm survey for circumstellar dust around young Chamaeleon objects

Henning, T., Pfau, W., Zinnecker, H., Prusti, T. **276**, 129

Periodicities in the radio emission of UX Arietis?

Neidhöfer, J., Massi, M., Chiuderi-Drago, F. **278**, L51

Multifrequency observations of AB Doradus. X-ray flaring and rotational modulation of a young star

Vilhu, O., Tsuru, T., Collier Cameron, A., Budding, E., Banks, T., Slee, B., Ehrenfreund, P., Foing, B.H. **278**, 467

Near-infrared and sub-millimeter photometry of carbon stars

Groenewegen, M.A.T., de Jong, T., Baas, F. **279**, 676 (101, 513)

The Orion radio zoo revisited: source variability

Felli, M., Taylor, G.B., Catarzi, M., Churchwell, E., Kurtz, S. **279**, 680 (101, 127)

Radio lines: galaxies

No molecular gas in M 87: just a monster?

Braine, J., Wiklind, T. **267**, L47

A comprehensive study of the peculiar spiral galaxy NGC 1808. II. VLA H I line observations

Koribalski, B., Dahlem, M., Mebold, U., Brinks, E. **268**, 14

Dense gas in nearby galaxies. VI. A large $^{12}\text{C}/^{13}\text{C}$ ratio in a nuclear starburst environment

Henkel, C., Mauersberger, R., Wiklind, T., Hüttemeister, S., Lemme, C., Millar, T.J. **268**, L17

H₂O masers in nearby irregular galaxies

Becker, R., Henkel, C., Wilson, T.L., Wouterloot, J.G.A. **268**, 483

New Westerbork observations of the H I cloud near NGC 4472

Henning, P.A., Sancisi, R., McNamara, B.R. **268**, 536

Search for LiH lines at high redshift

de Bernardis, P., Dubrovich, V., Encarnaz, P.J., Maoli, R., Masi, S., Mastrantonio, G., Melchiorri, B., Melchiorri, F., Signore, M., Tanzilli, P.E. **269**, 1

A CO(1-0) and CO(2-1) survey of nearby spiral galaxies. III. More H₂ gas in perturbed galaxies?

Braine, J., Combes, F. **269**, 7

Distribution and motions of atomic hydrogen in lenticular galaxies.

X. The blue S0 galaxy NGC 5102

van Woerden, H., van Driel, W., Braun, R., Rots, A.H. **269**, 15

High resolution $^{12}\text{CO}(2-1)$ observations of the molecular gas in Centaurus A

Rydbeck, G., Wiklind, T., Cameron, M., Wild, W., Eckart, A., Genzel, R., Rothenmel, H. **270**, L13

The distribution of CO in NGC 4945

Dahlem, M., Golla, G., Whiteoak, J.B., Wielebinski, R., Hüttemeister, S., Henkel, C. **270**, 29

Results of the ESO-SEST Key Programme: CO in the Magellanic Clouds. II. CO in the SW region of the Small Magellanic Cloud

Rubio, M., Lequeux, J., Boulanger, F., Booth, R.S., Garay, G., de Graauw, T., Israël, F.P., Johansson, L.E.B., Kutner, M.L., Nyman, L.-Å. **271**, 1

Results of the ESO-SEST Key Programme: CO in the Magellanic Clouds. III. Molecular gas in the Small Magellanic Cloud

Rubio, M., Lequeux, J., Boulanger, F. **271**, 9

The molecular cloud content of early-type galaxies. IV. A molecular bar in NGC 4691

Wiklind, T., Henkel, C., Sage, L.J. **271**, 71

Distribution and motions of H I in the ringed galaxy NGC 4736

Mulder, P.S., van Driel, W. **272**, 63

Rotation of stars and gas in M 82

McKeith, C.D., Castles, J., Greve, A., Downes, D. **272**, 98

Molecular gas in nearby galaxies. I. CO observations of a distance-limited sample

Sage, L.J. **272**, 123

New H I observations for some edge-on spiral galaxies

Garcia, A.M., Bottinelli, L., Garnier, R., Gouguenheim, L., Paturel, G. **272**, 753 (97, 801)

A CO(1-0) and CO(2-1) survey of nearby spiral galaxies. I. Data and observations

Braine, J., Combes, F., Casoli, F., Dupraz, C., Gérin, M., Klein, U., Wielebinski, R., Brouillet, N. **272**, 754 (97, 887)

- Powering the starburst in the merging system Mkn 297
Sage, L.J., Loose, H.-H., Salzer, J.J. **273**, 6
- Water at $z = 2.286$?
Encarnaz, P.J., Combes, F., Casoli, F., Gerin, M., Pagani, L., Horellou, C., Gac, C. **273**, L19
- Widespread high velocity gas in the spiral galaxy NGC 6946
Kamphuis, J., Sancisi, R. **273**, L31
- CO in Messier 51. I. Molecular spiral structure
García-Burillo, S., Guélin, M., Cernicharo, J. **274**, 123
- CO in Messier 51. II. Molecular cloud dynamics
García-Burillo, S., Combes, F., Gerin, M. **274**, 148
- C and O nucleosynthesis in starbursts: the connection between distant mergers, the Galaxy, and the solar system
Henkel, C., Mauersberger, R. **274**, 730
- Molecular clouds in the 30 Doradus halo
Garay, G., Rubio, M., Ramírez, S., Johansson, L.E.B., Thaddeus, P. **274**, 743
- H I observations of binary spiral galaxies
Oosterloo, T., Shostak, S. **275**, 354 (**99**, 379)
- Results of the ESO-SEST Key Programme on CO in the Magellanic Clouds. I. A survey of CO in the LMC and the SMC
Israel, F.P., Johansson, L.E.B., Lequeux, J., Booth, R.S., Nyman, L.-Å., Crane, P., Rubio, M., de Graauw, T., Kutner, M.L., Gredel, R., Boulanger, F., Garay, G., Westerlund, B.E. **276**, 25
- Molecular gas in nearby galaxies. II. The data
Sage, L.J. **277**, 363 (**100**, 537)
- The clouds of M 82. I. HCN in the southwest part
Brouillet, N., Schilke, P. **277**, 381
- CO(2 \rightarrow 1) and ^{13}CO (1 \rightarrow 0) emission from luminous southern infrared galaxies
Garay, G., Mardones, D., Mirabel, I.F. **277**, 405
- CO in the "Black Eye" galaxy NGC 4826
Casoli, F., Gerin, M. **279**, L41
- CO observations of a region of strongly polarized radio continuum emission in the SW arms of M 31
Berkhuijsen, E.M., Bajaja, E., Beck, R. **279**, 359
- Observational data for the kinematics of the local universe. II. Second set of radial velocity measurements
Bottinelli, L., Durand, N., Fouqué, P., Garnier, R., Gouguenheim, L., Loulergue, M., Paturel, G., Petit, C., Teerikorpi, P. **280**, 344 (**102**, 57)
- NGC 4414: a flocculent galaxy with a high gas surface density
Braine, J., Combes, F., van Driel, W. **280**, 451
- Radio lines: interstellar**
- Measurement of the methyl cyanide E/A ratio in TMC-1
Minh, Y.C., Irvine, W.M., Ohishi, M., Ishikawa, S., Saito, S., Kaifu, N. **267**, 229
- A dense H I filament in the local X-ray emitting plasma: ROSAT observation of LVC 88+36-2
Kerp, J., Herbstmeier, U., Mebold, U. **268**, L21
- The abundance of nitric oxide in TMC 1
Gerin, M., Viala, Y., Casoli, F. **268**, 212
- The molecular outflow very near L 1551 IRS 5
Fridlund, C.V.M., Knee, L.B.G. **268**, 245
- Three transitions of methanol at 1 cm wavelength
Wilson, T.L., Hüttemeister, S., Dahmen, G., Henkel, C. **268**, 249
- A multi-molecular study of the dense high-latitude cloud MCLD 126.6+24.5
Boden, K.-P., Heithausen, A. **268**, 255
- A composite large-scale CO survey at high galactic latitudes in the second quadrant
Heithausen, A., Stacy, J.G., de Vries, H.W., Mebold, U., Thaddeus, P. **268**, 265
- High density structure of the L 1455 dark cloud
Juan, J., Bachiller, R., Kömpe, C., Martín-Pintado, J. **270**, 432
- Detection of interstellar CH₂DOH
Jacq, T., Walmsley, C.M., Mauersberger, R., Anderson, T., Herbst, E., De Lucia, F.C. **271**, 276
- Fitting a clumpy cloud model to observations of CO and ^{13}CO transitions
Robert, C., Pagani, L. **271**, 282
- First detection of CS (10-9) in galactic star forming cores
Hauschildt, H., Güsten, R., Phillips, T.G., Schilke, P., Serabyn, E., Walker, C.K. **273**, L23
- Observation of methanol maser sources with the Arcetri 12 GHz receiver
Catarzi, M., Moscadelli, L., Panella, D. **273**, 352 (**98**, 127)
- First tentative detection of the molecular oxygen isotopomer $^{16}\text{O}^{18}\text{O}$ in interstellar clouds
Pagani, L., Langer, W.D., Castets, A. **274**, L13
- A CO and IRAS study of Cometary Globule 12
White, G.J. **274**, L33
- CO observations of the Lupus dark clouds
Gahm, G.F., Johansson, L.E.B., Liseau, R. **274**, 415
- CO and H I associated with the supernova remnant G 84.2-0.8?
Feldt, C., Green, D.A. **274**, 421
- High resolution H I observations of 3C 58
Roberts, D.A., Goss, W.M., Kalberla, P.M.W., Herbstmeier, U., Schwarz, U.J. **274**, 427
- Kinematics of neutral gas in the bulge of the Milky Way
Burton, W.B., Liszt, H.S. **274**, 765
- Radio continuum observations of southern planetary nebulae candidates
Van de Steene, G.C.M., Pottasch, S.R. **274**, 895
- IRAS sources beyond the solar circle. III. Observations of H₂O, OH, CH₃OH and CO
Wouterloot, J.G.A., Brand, J., Fiegle, K. **274**, 1013 (**98**, 589)
- A deep CO survey of the third galactic quadrant
May, J., Bronfman, L., Alvarez, H., Murphy, D.C., Thaddeus, P. **274**, 1015 (**99**, 103)
- An unusual case of HCN hyperfine anomalies in S 76E
Zinchenko, I., Forsström, V., Mattila, K. **275**, L9
- A search for molecular oxygen in cold dark clouds
Fuente, A., Cernicharo, J., García-Burillo, S., Tejero, J. **275**, 558
- The molecular cloud associated with the H II region RCW 34
Pagani, L., Heydari-Malayeri, M., Castets, A. **275**, 573
- Warm dense gas in high latitude clouds: multiline CO and NH₃ observations of MBM 32
Schreiber, W., Wouterloot, J.G.A., Heithausen, A., Winnewisser, G. **276**, L5
- Hot ammonia emission: kinetic temperature gradients in Orion-KL
Wilson, T.L., Henkel, C., Hüttemeister, S., Dahmen, G., Linhart, A., Lemme, C., Schmid-Burgk, J. **276**, L29
- Plateau de Bure observations of mm-wave molecular absorption toward BL Lacertae
Lucas, R., Liszt, H.S. **276**, L33
- The W 80 dark cloud: a case study of fragmentation. I. The observations
Feldt, C., Wendker, H.J. **276**, 328 (**100**, 287)
- Elliptical streamlines in the inner Galaxy and their large-scale organization
Kampmann, H., Rohlf, K., Kreitschmann, J. **276**, 339

- A multilevel study of ammonia in star forming regions. V. The Sgr B2 region
 Hüttemeister, S., Wilson, T.L., Henkel, C., Mauersberger, R. **276**, 445
- A chemical study of the photodissociation region NGC 7023
 Fuente, A., Martín-Pintado, J., Cernicharo, J., Bachiller, R. **276**, 473
- Ammonia and methyl cyanide in hot cores
 Olmi, L., Cesaroni, R., Walmsley, C.M. **276**, 489
- The star-forming region around HH 24-26: a revised morphology
 Gibb, A.G., Heaton, B.D. **276**, 511
- The W 80 dark cloud: a case study of fragmentation. II. The H I content
 Feldt, C. **276**, 531
- Orion KL: rotation or two clouds?
 Wang, T.Y., Wouterloot, J.G.A., Wilson, T.L. **277**, 205
- A multi-transitional molecular and atomic line study of S 140
 Minchin, N.R., White, G.J., Padman, R. **277**, 595
- The structure of G 34.3+0.2 deduced from multitransition molecular line observations of HCO⁺
 Heaton, B.D., Little, L.T., Yamashita, T., Davies, S.R., Cunningham, C.T., Monteiro, T.S. **278**, 238
- Large-scale structure of the R Coronae Australis cloud core
 Harju, J., Haikala, L.K., Mattila, K., Mauersberger, R., Booth, R.S., Nordh, H.L. **278**, 569
- HCN hyperfine anomalies in dark clouds
 González-Alfonso, E., Cernicharo, J. **279**, 506
- Submillimeter observations of the shocked molecular gas associated with the supernova remnant IC 443
 van Dishoeck, E.F., Jansen, D.J., Phillips, T.G. **279**, 541
- CO absorption in the outer Galaxy: abundant cold molecular gas
 Lequeux, J., Allen, R.J., Guilloteau, S. **280**, 23
- The molecular gas toward Cassiopeia A
 Wilson, T.L., Mauersberger, R., Muders, D., Przewodnik, A., Olano, C.A. **280**, 221
- Kinetic temperatures in Galactic Center molecular clouds
 Hüttemeister, S., Wilson, T.L., Bania, T.M., Martín-Pintado, J. **280**, 255
- NGC 4414: a flocculent galaxy with a high gas surface density
 Braine, J., Combes, F., van Driel, W. **280**, 451
- H₂O masers associated with dense molecular clouds and ultracompact H II regions. II. The extended sample
 Palla, F., Cesaroni, R., Brand, J., Caselli, P., Comoretto, G., Felli, M. **280**, 599
- Radio lines: solar system**
- A search for parent molecules at millimetre wavelengths in comets Austin 1990 V and Levy 1990 XX: upper limits for undetected species
 Crovisier, J., Bockelée-Morvan, D., Colom, P., Despois, D., Paubert, G. **269**, 527
- CO in the troposphere of Neptune: detection of the J=1-0 line in absorption
 Guilloteau, S., Dutrey, A., Marten, A., Gautier, D. **279**, 661
- Radio lines: stars**
- Candidate OH/IR stars in the outer parts of our Galaxy
 Blommaert, J.A.D.L., van der Veen, W.E.C.J., Habing, H.J. **267**, 39
- The spatio-kinematic structure of the CO envelopes of evolved planetary nebulae
 Bachiller, R., Huggins, P.J., Cox, P., Forveille, T. **267**, 177
- S-bearing molecules in O-rich circumstellar envelopes
 Omont, A., Lucas, R., Morris, M., Guilloteau, S. **267**, 490
- Characterization and proportion of very cold C-rich circumstellar envelopes
 Omont, A., Loup, C., Forveille, T., te Lintel Hekkert, P., Habing, H.J., Sivagnanam, P. **267**, 515
- Millimetre observations of old novae
 Weight, A., Evans, A., Albinson, J.S., Krautter, J. **268**, 294
- Modelling of the CO emission around the carbon star S Scuti
 Bergman, P., Carlström, U., Olofsson, H. **268**, 685
- The mass loss history of high latitude supergiants
 van der Veen, W.E.C.J., Trams, N.R., Waters, L.B.F.M. **269**, 231
- A molecular radio line survey of the carbon star IRAS 15194-5115
 Nyman, L.-Å., Olofsson, H., Johansson, L.E.B., Booth, R.S., Carlström, U., Wolstencroft, R. **269**, 377
- Detailed modelling of the shell around S Scuti
 Eriksson, K., Stenholm, L. **271**, 508
- IRAS 17150-3224: a young, optically bipolar, proto-planetary nebula
 Hu, J.Y., Slijkhuis, S., Nguyen-Q-Rieu, de Jong, T. **273**, 185
- An OH mainline maser survey of IRAS circumstellar envelope sources
 David, P., Le Squeren, A.M., Sivagnanam, P., Braz, M.A. **273**, 354 (**98**, 245)
- Probing the AGB tip: luminous carbon stars in the galactic plane
 Kastner, J.H., Forveille, T., Zuckerman, B., Omont, A. **275**, 163
- CO and HCN observations of circumstellar envelopes. A catalogue. Mass loss rates and distributions
 Loup, C., Forveille, T., Omont, A., Paul, J.F. **275**, 354 (**99**, 291)
- Search for hydroxyl in southern cold IRAS sources
 Silva, A.M., Azcárate, I.N., Pöppel, W.G.L., Likkell, L. **275**, 510
- Carbon stars with excess emission at 60 μ m wavelength
 Zuckerman, B. **276**, 367
- HC₃N from the envelopes of IRC+10216 and CRL2688
 Truong-Bach, Graham, D., Nguyen-Q-Rieu **277**, 133
- An OH satellite line maser survey of cool IRAS sources and circumstellar envelope evolution
 David, P., Le Squeren, A.M., Sivagnanam, P. **277**, 453
- Monitoring OH/IR stars at the Galactic centre with the VLA
 Van Langevelde, H.J., Janssens, A.M., Goss, W.M., Habing, H.J., Winnberg, A. **279**, 680 (**101**, 109)
- MgNC and the carbon-chain radicals in IRC+10216
 Guélin, M., Lucas, R., Cernicharo, J. **280**, L19
- Infrared and SiO maser observations of OH/IR stars
 Nyman, L.-Å., Hall, P.J., Le Bertre, T. **280**, 551
- Reference systems**
- Characteristics of the catalogue of positions for 223 PZT-Ondrejov-programme stars
 Sadžakov, S., Dačić, M., Cvetković, Z. **272**, 747 (**97**, 417)
- Optical positions of selected radio stars from circumzenithal observations
 Pešek, I. **272**, 752 (**97**, 777)
- Determination of field distortion by a plate-overlap method
 Abad, C. **273**, 350 (**98**, 1)
- Ephemerides of the 48 Hipparcos minor planets for the year 1993
 Bec-Borsenberger, A. **273**, 351 (**98**, 77)
- Analytical relativistic transformations between reference systems
 Brumberg, V.A., Bretagnon, P., Francou, G. **275**, 651
- UBVRI photometry of FKSZ stars. IV.
 Carrasco, G., Loyola, P. **277**, 361 (**100**, 489)
- UBV photometry of stars whose positions are accurately known. VII.
 Oja, T. **277**, 363 (**100**, 591)

Spectrum of the Bordeaux transit circle residuals

Benevides-Soares, P., Teixeira, R., Réquême, Y. 278, 293

Hipparcos link with Carte du Ciel triple images

Dick, W.R., Tucholke, H.-J., Brosche, P., Galas, R., Geffert, M., Guibert, J. 279, 267

On the hierarchy of relativistic kinematically nonrotating reference systems

Klioner, S.A. 279, 273

Corrections to FK4 positions of stars observed at Paris astrolabe (1962–1980) (Text in French)

Najid, N.-E. 280, 347 (102, 389)

A global analysis method for astrolabe observations (Text in French)

Chollet, F. 280, 675

Relativity

Self-collimated jets beyond the light cylinder

Appl, S., Camenzind, M. 270, 71

Upper bounds on the neutrino burst from collapse of a neutron star into a black hole

Gourgoulhon, E., Haensel, P. 271, 187

Image generation in Kerr geometry. I. Analytical investigations on the stationary emitter–observer problem

Viergutz, S.U. 272, 355

The Nordtvedt effect in the Trojan asteroids

Orellana, R.B., Vucetich, H. 273, 313

The structure of relativistic MHD jets: a solution to the nonlinear Grad-Shafranov equation

Appl, S., Camenzind, M. 274, 699

Analytical relativistic transformations between reference systems

Brumberg, V.A., Bretagnon, P., Francou, G. 275, 651

Parallactic variation of gravitational lensing and measurement of stellar mass

Hosokawa, M., Ohnishi, K., Fukushima, T., Takeuti, M. 278, L27

Axisymmetric rotating relativistic bodies: a new numerical approach for “exact” solutions

Bonazzola, S., Gourgoulhon, E., Salgado, M., Marck, J.A. 278, 421

On the hierarchy of relativistic kinematically nonrotating reference systems

Klioner, S.A. 279, 273

Scattering

Compton scattering of polarized light: scattering matrix for isotropic electron gas

Nagirner, D.J., Poutanen, J. 275, 325

Compton scattering of polarized light in two-phase accretion discs

Poutanen, J., Vilhu, O. 275, 337

Anisotropic light scattering in a spherical shell

Bosma, P.B. 276, 303

An interferometric approach to the measurement of the diffuse light from optical surfaces and systems

Greco, V., Molesini, G., Quercioli, F., Righini, A. 277, 345

Shock waves

Modelling time variable and total eclipses of the millisecond pulsar PSR 1744-24A

Tavani, M., Brookshaw, L. 267, L1

Spectroscopy and shock modelling of the unusual bipolar outflow NGC 6905

Cuesta, L., Phillips, J.P., Mampaso, A. 267, 199

Mixed shocks: spectral selection of the class of solutions

Lehoucq, R., Roland, J., Pelletier, G. 268, 93

Does artificial viscosity destroy prompt type-II supernova explosions?

Janka, H.-T., Zwerger, T., Mönchmeyer, R. 268, 360

Diffusive first and second order Fermi acceleration at parallel shock waves

Ostrowski, M., Schlickeiser, R. 268, 812

The nonlinear stage of evolution of spherically symmetric disturbances in an Einstein-de Sitter universe: explosive and implosive modes

Kovalenko, I.G., Sokolov, P.A. 270, 1

Effects of spiral shocks on disk emission lines

Chakrabarti, S.K., Wiita, P.J. 271, 216

Cosmic rays. I. The cosmic ray spectrum between 10^4 GeV and $3 \cdot 10^9$ GeV

Biermann, P.L. 271, 649

Compression in radiative shocks: switch and intermediate properties

Smith, M.D. 272, 571

X-rays from supernova remnants with particle acceleration

Dorfi, E.A., Böhringer, H. 273, 251

On the interactions of hydrodynamic shock waves in stellar atmospheres

Fleck, B., Schmitz, F. 273, 671

The interaction between the solar wind and the comet P/Halley atmosphere: observations versus theoretical predictions

Baranov, V.B., Lebedev, M.G. 273, 695

Synchrotron emission from bent shocked relativistic jets. I. Bent relativistic jets

Gómez, J.L., Alberdi, A., Marcaide, J.M. 274, 55

The alpha-effect due to supernova explosions

Kaisig, M., Rüdiger, G., Yorke, H.W. 274, 757

Cosmic rays. IV. The spectrum and chemical composition above 10^4 GeV

Stanev, T., Biermann, P.L., Gaisser, T.K. 274, 902

Axisymmetric accretion flow past large, gravitating bodies

Shankar, A., Kley, W., Burkert, A. 274, 955

Particle acceleration by multiple shocks at the hot spots of extragalactic radio sources

Anastasiadis, A., Vlahos, L. 275, 427

Cosmic rays. III. The cosmic ray spectrum between 1 GeV and 10^4 GeV and the radio emission from supernova remnants

Biermann, P.L., Strom, R.G. 275, 659

Stochastic particle acceleration at parallel astrophysical shock waves

Schlickeiser, R., Campeanu, A., Lerche, I. 276, 614

Modelling non-axisymmetric bow shocks

Bandiera, R. 276, 648

Atmospheric motions in classical Cepheid stars. I. The star of reference: δ Cephei

Breitfellner, M.G., Gillet, D. 277, 524

Atmospheric motions in classical Cepheid stars. II. The pre-resonance Cepheids: η Aquilae, S Sagittae

Breitfellner, M.G., Gillet, D. 277, 541

Atmospheric motions in classical Cepheid stars. III. A very large amplitude star: X Cygni

Breitfellner, M.G., Gillet, D. 277, 553

Cosmic rays. II. Evidence for a magnetic rotator Wolf-Rayet star origin

Biermann, P.L., Cassinelli, J.P. 277, 691

Modification of the nebular environment in symbiotic systems due to colliding winds

Nussbaumer, H., Walder, R. 278, 209

Molecular outflows entrained by jet bowshocks

Raga, A., Cabrit, S. 278, 267

Diffusive particle acceleration by an ensemble of shock waves

Schneider, P. 278, 315

A new tool to study wave propagation: the Van Hoof effect

Mathias, P., Gillet, D. **278**, 511

On the numerical calculation of hydrodynamic shock waves in atmospheres by an FCT method

Schmitz, F., Fleck, B. **279**, 499

Submillimeter observations of the shocked molecular gas associated with the supernova remnant IC 443

van Dishoeck, E.F., Jansen, D.J., Phillips, T.G. **279**, 541

Collisions between a white dwarf and a main-sequence star. III. Simulations including the white dwarf surface

Ruffert, M. **280**, 141

A generalized version of the Rankine-Hugoniot relations including ionization, dissociation, radiation and related phenomena

Nieuwenhuijzen, H., de Jager, C., Cuntz, M., Lobel, A., Achmad, L. **280**, 195

Site testing

The ESO atmospheric temporal coherence monitor dedicated to high angular resolution imaging

Lopez, B., Sarazin, M. **276**, 320

Solar system: formation

The β Pictoris protoplanetary system. XIV. Simultaneous observations of the Ca II H and K lines: evidence for diffuse and broad absorption features

Ferlet, R., Lagrange-Henri, A.-M., Beust, H., Vitry, R., Zimmerman, J.-P., Martin, M., Char, S., Belmahdi, M., Clavier, J.-P., Coupiac, P., Foing, B.H., Sevre, F., Vidal-Madjar, A. **267**, 137

The β Pictoris circumstellar disk. XV. Highly ionized species near β Pictoris

Deleuil, M., Gry, C., Lagrange-Henri, A.-M., Vidal-Madjar, A., Beust, H., Ferlet, R., Moos, H.W., Livengood, T.A., Ziskin, D., Feldman, P.D., McGrath, M.A. **267**, 187

On the missing interstellar comets

Sen, A.K., Rana, N.C. **275**, 298

Solar system: general

Solution of the N -body problem expanded into Taylor series of high orders. Applications to the solar system over large time range

Le Guyader, C. **272**, 687

The effect of magnetic fields on the macroscopic instability of the heliopause. I. Parallel interstellar magnetic fields

Ruderman, M.S., Fahr, H.J. **275**, 635

Radiative transfer in the interplanetary medium at Lyman alpha

Quémenerais, E., Bertaux, J.-L. **277**, 283

The location of secular resonances close to the 2/1 commensurability

Morbidelli, A., Scholl, H., Froeschlé, C. **278**, 644

(Stars:) Hertzsprung-Russell (HR) diagram

Blanketing effects in the very metal-rich bulge globular cluster Terzan 1

Ortolani, S., Bica, E., Barbuy, B. **267**, 66

NGC 6603: a young rich open cluster towards the bulge

Bica, R., Ortolani, S., Barbuy, B. **270**, 117

A new method for analyzing horizontal branch morphology and mass loss

Jørgensen, U.G., Thejll, P. **272**, 255

A detailed study of the sparse open cluster Roslund 3: a case for circumstellar extinction

Turner, D.G. **272**, 752 (**97**, 755)

Lyngå 7: a new disk globular cluster?

Ortolani, S., Bica, E., Barbuy, B. **273**, 415

Colour evolution models and the distribution of LMC clusters in the integrated UBV plane

Girardi, L., Bica, E. **274**, 279

New dating of galactic open clusters

Meynet, G., Mermilliod, J.-C., Maeder, A. **274**, 1011 (**98**, 477)

Grids of stellar models. II. From 0.8 to $120 M_{\odot}$ at $Z=0.008$

Schaerer, D., Meynet, G., Maeder, A., Schaller, G. **274**, 1012 (**98**, 523)

Erratum: NGC 6603: a young rich open cluster towards the bulge

Bica, E., Ortolani, S., Barbuy, B. **277**, 360

Evolutionary sequences of stellar models with new radiative opacities. II. $Z=0.02$

Bressan, A., Fagotto, F., Bertelli, G., Chiosi, C. **277**, 364 (**100**, 647)

Grids of stellar models. III. From 0.8 to $120 M_{\odot}$ at $Z=0.004$

Charbonnel, C., Meynet, G., Maeder, A., Schaller, G., Schaerer, D. **279**, 338 (**101**, 415)

Grids of stellar models. IV. From 0.8 to $120 M_{\odot}$ at $Z=0.040$

Schaerer, D., Charbonnel, C., Meynet, G., Maeder, A., Schaller, G. **280**, 346 (**102**, 339)

Colour magnitude diagram for the globular cluster M 13

Guarnieri, M.D., Bragaglia, A., Fusi Pecci, F. **280**, 348 (**102**, 397)

Stars: Population II

Barium isotopes in the very metal-poor star HD 140283

Magain, P., Zhao, G. **268**, L27

The lithium-poor stars: additional observations

Spite, M., Molaro, P., François, P., Spite, F. **271**, L1

Studies of Cepheid-type variability. XI. Are some BL Herculis variables overtone pulsators?

Petersen, J.O. **272**, 217

$uvby-\beta$ photometry of high-velocity and metal-poor stars. VI. A second catalogue, and stellar populations of the Galaxy

Schuster, W.J., Parrao, L., Contreras Martínez, M.E. **272**, 755 (**97**, 951)

On the nature of bright Blue Stragglers in the centre of M 3 and NGC 6397: analysis of UBV observations

Lauzeral, C., Aurière, M., Coupinot, G. **274**, 214

On the galactic age problem: determination of the [Th/Eu] ratio in halo stars

François, P., Spite, M., Spite, F. **274**, 821

Synthetic horizontal-branch models for Galactic globular clusters

Catelan, M. **274**, 1013 (**98**, 547)

An atlas of theoretical constraints for horizontal branch stars

Caputo, F., De Rinaldis, A., Manteiga, M., Pulone, L., Quarta, M.L. **276**, 41

On the mass of type-c RR Lyrae variables in globular clusters

Cacciari, C., Bruzzi, A. **276**, 87

Lithium abundance in a few extremely metal-poor stars and strontium-poor stars

Spite, F., Spite, M. **279**, L9

Stars: Wolf-Rayet

Ultraviolet spectroscopic variability of the WN5 star HD50896: timescales and linear physical dimensions of the perturbations

St-Louis, N., Howarth, I.D., Willis, A.J., Stickland, D.J., Smith, L.J., Conti, P.S., Garmany, C.D. **267**, 447

Erratum: Stellar yields as a function of initial metallicity and mass limit for black hole formation

Maeder, A. **268**, 833

Effect of chemical abundance on a Wolf-Rayet stellar wind driven by radiation pressure and Alfvén waves

dos Santos, L.C., Jatenco-Pereira, V., Opher, R. **270**, 345

Spatially resolved spectroscopy of WR ring nebulae. IV. The fundamental parameters of the central stars

Esteban, C., Smith, L.J., Vilchez, J.M., Clegg, R.E.S. **272**, 299

Massive stars as Galactic producers of ^{26}Al

Signore, M., Dupraz, C. **272**, 733 (**97**, 141)

First results from COMPTEL measurement of the ^{26}Al 1.8 MeV gamma-ray line from the Galactic center region

Diehl, R., Bennett, K., Bloemen, H., deBoer, H., Busetta, M., Collmar, W., Connors, A., den Herder, J.W., de Vries, C., Hermesen, W., Knödlseider, J., Kuiper, L., Lichti, G.G., Lockwood, J., Macri, J., McConnell, M., Morris, D., Much, R., Ryan, J., Schönfelder, V., Simpson, G., Stacy, J.G., Steinle, H., Strong, A.W., Swanenburg, B.N., Varendorff, M., von Ballmoos, P. **272**, 735 (**97**, 181)

Spectral analyses of the galactic Wolf-Rayet stars: a comprehensive study of the WN class

Hamann, W.-R., Koesterke, L., Wessolowski, U. **274**, 397

Spectroscopic and photometric variability of Cygnus X-3

van Kerkwijk, M.H. **276**, L9

Cosmic rays. II. Evidence for a magnetic rotator Wolf-Rayet star origin

Biermann, P.L., Cassinelli, J.P. **277**, 691

HDE 269828: a reddened massive star cluster

Heydari-Malayeri, M., Grebel, E.K., Melnick, J., Jorda, L. **278**, 11

Isotopic anomalies in cosmic rays and the metallicity gradient in the Galaxy

Maeder, A., Meynet, G. **278**, 406

An objective-prism survey of emission-line objects in M 31

Meyssonnier, N., Lequeux, J., Azzopardi, M. **280**, 346 (**102**, 251)

Wolf-Rayet nuclei of planetary nebulae. Observations and classification

Tylenda, R., Acker, A., Stenholm, B. **280**, 349 (**102**, 595)

The OB association LH 90 in the LMC: its age structure and Wolf-Rayet stars

Testor, G., Schild, H., Lortet, M.C. **280**, 426

Stars: abundances

Blanketing effects in the very metal-rich bulge globular cluster Terzan 1

Ortolani, S., Bica, E., Barbuy, B. **267**, 66

Metallicities and radial velocities of old open clusters

Friel, E.D., Janes, K.A. **267**, 75

The effects of stellar surface activity on the strength of the lithium 6708 Å line

Pallavicini, R., Cutispoto, G., Randich, S., Gratton, R. **267**, 145

Barium isotopes in the very metal-poor star HD 140283

Magain, P., Zhao, G. **268**, L27

On the relative C, N, O abundances and the evolutionary status of yellow symbiotic stars

Schmid, H.M., Nussbaumer, H. **268**, 159

Separation of chemical elements and isotopes in chemically peculiar stellar atmospheres by the light-induced drift effect

Nasyrov, K.A., Shalagin, A.M. **268**, 201

Alpha Centauri revisited

Neuforge, C. **268**, 650

Models for the early-time spectral evolution of the 'standard' type Ia supernova 1990 N

Mazzali, P.A., Lucy, L.B., Danziger, I.J., Gouffes, C., Cappellaro, E., Turatto, M. **269**, 423

The chemical compositions of the distant galactic open clusters Bochem 1 and NGC 1893

Rolleston, W.R.J., Brown, P.J.F., Dufton, P.L., Fitzsimmons, A. **270**, 107

Spectral analysis of DY Centauri, a hot R Coronae Borealis star with an unusually high hydrogen content

Jeffery, C.S., Heber, U. **270**, 167

Effect of chemical abundance on a Wolf-Rayet stellar wind driven by radiation pressure and Alfvén waves

dos Santos, L.C., Jatenco-Pereira, V., Opher, R. **270**, 345

The lithium-poor stars: additional observations

Spite, M., Molaro, P., François, P., Spite, F. **271**, L1

Elemental abundances of yttrium and zirconium in the mercury-manganese stars ϕ Herculis, κ Cancri and ι Coronae Borealis

Redfors, A., Cowley, C.R. **271**, 273

Analysis of NGC 1948 F6:4, a star in a young association of the LMC

Spite, F., Barbuy, B., Spite, M. **272**, 116

Constraints on the nucleosynthesis of Cu and Zn from models of chemical evolution of the Galaxy

Matteucci, F., Raiteri, C.M., Busso, M., Gallino, R., Gratton, R. **272**, 421

Oscillating Urca process in mass-accreting white dwarfs

Aparicio, J.M., Isern, J. **272**, 446

Lithium abundances in a flux-limited sample of galactic carbon stars

Abia, C., Boffin, H.M.J., Isern, J., Rebolo, R. **272**, 455

The Ga II lines in the red spectrum of Ap stars

Lanz, T., Artru, M.-C., Didelon, P., Mathys, G. **272**, 465

Evolutionary sequences for close binary systems in the mass range 3 to $8 M_{\odot}$

De Greve, J.P. **272**, 749 (**97**, 527)

Galactic B-supergiants. II. Line strengths in the visible—Evidence for evolutionary effects?

Lennon, D.J., Dufton, P.L., Fitzsimmons, A. **272**, 750 (**97**, 559)

Lithium in RS CVn binaries and related chromospherically active stars. II. Spectrum synthesis analysis

Randich, S., Gratton, R., Pallavicini, R. **273**, 194

Spectral analysis of extremely helium rich subdwarf O-stars

Dreizler, S. **273**, 212

Lyngå 7: a new disk globular cluster?

Ortolani, S., Bica, E., Barbuy, B. **273**, 415

EK Cephei B: a test object for pre-ZAMS models of solar-type stars

Martín, E.L., Rebolo, R. **274**, 274

Elemental abundances in normal late-B and HgMn stars from co-added IUE spectra. I. Iron-peak elements

Smith, K.C., Dworetzky, M.M. **274**, 335

Lithium abundance and activity in a sample of RS Canum Venaticorum and BY Draconis stars

Fernández-Figueroa, M.J., Barrado, D., De Castro, E., Cornide, M. **274**, 373

The atmospheric parameters of A and F stars. II. The calibration of the Strömgren δm_0 index for A-type stars

Smalley, B. **274**, 391

On the galactic age problem: determination of the [Th/Eu] ratio in halo stars

François, P., Spite, M., Spite, F. **274**, 821

In search of real solar twins. III.

Friel, E., Cayrel de Strobel, G., Chmielewski, Y., Spite, M., Lèbre, A., Bontolila, C. **274**, 825

Synthetic horizontal-branch models for Galactic globular clusters

Catelan, M. **274**, 1013 (**98**, 547)

The chemical evolution of the galactic disk. I. Analysis and results

Edvardsson, B., Andersen, J., Gustafsson, B., Lambert, D.L., Nissen, P.E., Tomkin, J. **275**, 101

The 777 nm oxygen triplet in the Sun and solar-type stars, and its use for abundance analysis

Kiselman, D. **275**, 269

- On the age and chemical discreteness of Strömgren's intermediate population II
Knude, J. **275**, 463
- Compositional differences among the A-type stars. I. Six narrow-lined stars
Hill, G.M., Landstreet, J.D. **276**, 142
- NLTE analysis of subluminescent O stars: the hot subdwarf in the binary system HD 128220
Rauch, T. **276**, 171
- He2-90: a southern planetary nebula with low metal abundances
Costa, R.D.D., de Freitas Pacheco, J.A., Maciel, W.J. **276**, 184
- The spectrum of FG Sge in 1992
Kipper, T., Kipper, M. **276**, 389
- Elemental abundances in normal late-B and HgMn stars from co-added IUE spectra. II. Magnesium, aluminium, and silicon
Smith, K. C. **276**, 393
- The chemical compositions of four B-type stars in the Small Magellanic Cloud
Rolleston, W.R.J., Dufton, P.L., Fitzsimmons, A., Howarth, I.D., Irwin, M.J. **277**, 10
- Abundance analysis of λ Bootis stars
Stürenburg, S. **277**, 139
- Stark-Broadening parameters of spectral lines of astrophysical interest of neutral palladium
Dimitrijević, M.S. **277**, 363 (**100**, 593)
- Evolutionary sequences of stellar models with new radiative opacities. II. $Z=0.02$
Bressan, A., Fagotto, F., Bertelli, G., Chiosi, C. **277**, 364 (**100**, 647)
- A search for yellow young disk population stars among EMSS stellar X-ray sources by means of lithium abundance determination
Favata, F., Barbera, M., Micela, G., Sciortino, S. **277**, 428
- Absolute dimensions of eclipsing binaries. XX. GG Lupi: young metal-deficient B stars
Andersen, J., Clausen, J.V., Giménez, A. **277**, 439
- Analysis of the DA white dwarf HZ 43 A and its companion star
Napiwotzki, R., Barstow, M.A., Fleming, T., Holweber, H., Jordan, S., Werner, K. **278**, 478
- Lithium abundance in a few extremely metal-poor stars and strontium-poor stars
Spite, F., Spite, M. **279**, L9
- The chemically peculiar star HD 37808
Leone, F., Catalano, F.A., Manfrè, M. **279**, 167
- The explosive thermonuclear formation of ^7Li revisited
Boffin, H.M.J., Paulus, G., Arnould, M., Mowlavi, N. **279**, 173
- Spectral analysis of LSE 78: an extreme helium star similar to BD - 9° 4395 and DY Centauri
Jeffery, C.S. **279**, 188
- On the abundance spread in solar neighbourhood stars
François, P., Matteucci, F. **280**, 136
- The hot R Coronae Borealis star DY Centauri: nebular and photospheric lines
Rao, N.K., Giridhar, S., Lambert, D.L. **280**, 201
- A catalogue of Li abundances and equivalent widths in a sample of galactic C-stars
Boffin, H.M.J., Abia, C., Isern, J., Rebolo, R. **280**, 347 (**102**, 361)
- The chemical evolution of the galactic disk. II. Observational data
Edvardsson, B., Andersen, J., Gustafsson, B., Lambert, D.L., Nissen, P.E., Tomkin, J. **280**, 349 (**102**, 603)
- Stars: activity**
- The effects of stellar surface activity on the strength of the lithium 6708 Å line
Pallavicini, R., Cutispoto, G., Randich, S., Gratton, R. **267**, 145
- Surface features of the lower atmosphere of HD 82558 (=LQ Hydrae)
Strassmeier, K.G., Rice, J.B., Wehlau, W.H., Hill, G.M., Matthews, J.M. **268**, 671
- ROSAT detection of stellar X-ray sources in the old open cluster M 67
Belloni, T., Verbunt, F., Schmitt, J.H.M.M. **269**, 175
- Optical studies of transient low-mass X-ray binaries. IV. A 10-hour distortion wave in the quiescent light curve of GS 2000+25
Chevalier, C., Ilovaisky, S.A. **269**, 301
- Photometry of ER Vulpeculae: photometric analysis with the WINK-10 code
Ibanoğlu, C., Evren, S., Akan, M.C., Tunca, Z., Keskin, V. **269**, 310
- Stellar and circumstellar short period spectrovariability in the Be star 28 Cygni
Bossi, M., Guerrero, G., Zanin, F. **269**, 343
- Fourier analysis of spotted star light curves as a tool to detect stellar differential rotation
Lanza, A.F., Rodonò, M., Zappalà, R.A. **269**, 351
- Relations between the photospheric magnetic field and the emission from the outer atmosphere of cool stars. III. The chromospheric emission from individual flux tubes
Schrijver, C.J. **269**, 395
- Magnetic activity in dwarf stars with shallow convective envelopes
Schrijver, C.J. **269**, 446
- Activity in late-type stars. VIII. The nature of the dM(e) or "zero" H α stars
Byrne, P.B. **272**, 495
- UV and X-ray emission in the interacting binary U Cephei
Giménez, A., Guinan, E.F., González-Riestra, R. **272**, 739 (**97**, 261)
- On the cause of luminosity-colour variation in the active binary system DH Leonis
Aslan, Z. **273**, L47
- Lithium in RS CVn binaries and related chromospherically active stars. II. Spectrum synthesis analysis
Randich, S., Gratton, R., Pallavicini, R. **273**, 194
- A study of activity in F-type main-sequence stars using the D $_3$ line of He I
García López, R.J., Rebolo, R., Beckman, J.E., McKeith, C.D. **273**, 482
- Dynamics of flares on late-type dMe stars. II. Mass motions and prominence oscillations during a flare on AD Leonis
Houdebine, E.R., Foing, B.H., Doyle, J.G., Rodonò, M. **274**, 245
- Lithium abundance and activity in a sample of RS Canum Venaticorum and BY Draconis stars
Fernández-Figueroa, M.J., Barrado, D., De Castro, E., Cornide, M. **274**, 373
- Doppler imaging with a CLEAN-like approach. I. A newly developed algorithm, simulations, and tests
Kürster, M. **274**, 851
- Multi-site continuous spectroscopy. I. Overview of the MUSICOS 1989 campaign organization
Catala, C., Foing, B.H., Baudrand, J., Cao, H., Char, S., Chatzichristou, H., Cuby, J.G., Czarny, J., Dreux, M., Felenbok, P., Floquet, M., Guérin, J., Huang, L., Hubert-Delpierre, A.M., Hubert, H., Huovelin, J., Jankov, S., Jiang, S., Li, Q., Neff, J.E., Petrov, P., Savanov, I., Shcherbakov, A., Simon, T., Tuominen, I., Zhai, D. **275**, 245
- Chromospheric rotational modulation in solar-like stars. I. A method for multi-component modelling of Ca II H and K spectroscopic variability
Char, S., Foing, B.H. **276**, 69

Chromospheric rotational modulation in solar-like stars. II. Multi-component modelling and rotational period of α Centauri B from CaII H spectroscopic variability

Char, S., Foing, B.H., Beckman, J., García López, R.J., Rebolo, R. **276**, 78

A decade of photometry of LQ Hydrae

Jetsu, L. **276**, 345

Simulated imaging of the upper atmosphere of active stars

Donati, J.-F., Catala, C. **277**, 123

BV photometry and H α spectroscopy of the RS Canum Venaticorum binary II Pegasi

Mohin, S., Raveendran, A.V. **277**, 155

The uniqueness of photometric solutions for spotted W Ursae Majoris binaries

Maceroni, C., van 't Veer, F. **277**, 515

Rotation, magnetic braking, and dynamos in cool giants and subgiants

Schrijver, C.J., Pols, O.R. **278**, 51

Dynamics of flares on late-type dMe stars. III. Kinetic energy and mass momentum budget of a flare on AD Leonis

Houdebine, E.R., Foing, B.H., Doyle, J.G., Rodonò, M. **278**, 109

Circular polarization and variability in the spectra of Herbig Ae/Be stars. I. The FeII 5018 Å and HeI 5876 Å lines of AB Aurigae

Catala, C., Böhm, T., Donati, J.-F., Semel, M. **278**, 187

Spot and flare activity of FK Comae Berenices: long-term photometry

Jetsu, L., Pelt, J., Tuominen, I. **278**, 449

Activity in late-type stars. IX. The weakest chromosphere M dwarf yet discovered: Gl 105B

Byrne, P.B. **278**, 520

Investigation of micro-flaring and secular and quasi-periodic variations in dMe stars. VIII. Phase summation techniques in spectroscopy of Gl 735

Andrews, A.D., Stanek, K.Z. **279**, 197

New BV light curves and photometric solutions for the contact binary SS Arietis

Qingyao Liu, Yulan Yang, Chenghong Gu, Bi Wang **279**, 336 (**101**, 253)

COYOTES I. Multisite *UBVRI* photometry of 24 pre-main-sequence stars of the Taurus-Auriga cloud

Bouvier, J., Cabrit, S., Fernández, M., Martín, E.L., Matthews, J.M. **279**, 675 (**101**, 485)

Four-colour photometric study of the short-period eclipsing binary V Crateris

Qingyao Liu **279**, 679 (**101**, 49)

Flare activity and the origin of starspots

Mavridis, L.N., Avgoloupis, S. **280**, L5

Far-infrared properties of late-type dwarfs. Infrared fluxes of K and M dwarfs

Mathioudakis, M., Doyle, J.G. **280**, 181

Long-term monitoring of active stars. III. *UBV* (*RI*)_c photometry of 14 southern hemisphere variables

Cutispoto, G. **280**, 350 (**102**, 655)

Stars: asymptotic, post-asymptotic giant branch (AGB, post-AGB)

The central stars of He 2-131 and He 2-138: photometric variations

Hutton, R.G., Méndez, R.H. **267**, L8

IRAS 06562-0337: final mass-loss episodes before the formation of a planetary nebula?

García-Lario, P., Manchado, A., Sahu, K.C., Pottasch, S.R. **267**, L11

SAO 244567: a post-AGB star which has turned into a planetary nebula within the last 40 years

Parthasarathy, M., García-Lario, P., Pottasch, S.R., Manchado, A., Clavel, J., de Martino, D., Van de Steene, G.C.M., Sahu, K.C. **267**, L19

Candidate OH/IR stars in the outer parts of our Galaxy

Blommaert, J.A.D.L., van der Veen, W.E.C.J., Habing, H.J. **267**, 39

Stark broadening of C IV lines

Schöning, T. **267**, 300

Synthetic AGB evolution. I. A new model

Groenewegen, M.A.T., de Jong, T. **267**, 410

S-bearing molecules in O-rich circumstellar envelopes

Omont, A., Lucas, R., Morris, M., Guilloteau, S. **267**, 490

Characterization and proportion of very cold C-rich circumstellar envelopes

Omont, A., Loup, C., Forveille, T., te Lintel Hekkert, P., Habing, H.J., Sivagnanam, P. **267**, 515

On the relative C, N, O abundances and the evolutionary status of yellow symbiotic stars

Schmid, H.M., Nussbaumer, H. **268**, 159

A new PG 1159 star discovered in the ROSAT XRT all sky survey: NLTE analysis of X-ray and optical spectra

Motch, C., Werner, K., Pakull, M.W. **268**, 561

Bipolar nebulae and binary stars: the family of crabs He 2-104, BI Crucis, and MyCn 18

Corradi, R.L.M., Schwarz, H.E. **268**, 714

The mass loss history of high latitude supergiants

van der Veen, W.E.C.J., Trams, N.R., Waters, L.B.F.M. **269**, 231

A model for the 89 Herculis system

Waters, L.B.F.M., Waelkens, C., Mayor, M., Trams, N.R. **269**, 242

Dust shell modelling of the carbon star IRAS 15194-5115

Lopez, B., Perrier, C., Mékarnia, D., Lefèvre, J., Gay, J. **270**, 462

On the infrared properties of S-stars with and without technetium

Groenewegen, M.A.T. **271**, 180

S stars: infrared colors, technetium, and binarity

Jorissen, A., Frayer, D.T., Johnson, H.R., Mayor, M., Smith, V.V. **271**, 463

Linear analysis of RV Tauri stars: the resonance hypothesis

Tuchman, Y., Lèbre, A., Mennessier, M.O., Yarri, A. **271**, 501

Infrared observations of possible hot post-asymptotic giant branch stars

Conlon, E.S., Dufton, P.L., Keenan, F.P., McCausland, R.J.H., Little, J.E. **272**, 243

Lithium abundances in a flux-limited sample of galactic carbon stars

Abia, C., Boffin, H.M.J., Isern, J., Rebolo, R. **272**, 455

Oxygen-rich late-type star lightcurves in the 1-20 μ m range

Le Bertre, T. **272**, 751 (**97**, 729)

IRAS 17150-3224: a young, optically bipolar, proto-planetary nebula

Hu, J.Y., Slijkhuis, S., Nguyen-Q-Rieu, de Jong, T. **273**, 185

An OH mainline maser survey of IRAS circumstellar envelope sources

David, P., Le Squeren, A.M., Sivagnanam, P., Braz, M.A. **273**, 354 (**98**, 245)

Radiation hydrodynamics in atmospheres of long-period variables

Feuchtinger, M.U., Dorfi, E.A., Höfner, S. **273**, 513

Circumstellar dust in Mira variables and the mass loss mechanisms

Anandarao, B.G., Pottasch, S.R., Vaidya, D.B. **273**, 570

Identification of 106 new infrared carbon stars in the IRAS Point

Source Catalog: near-infrared photometry and their space distribution in the Galaxy

Guglielmo, F., Epchtein, N., Le Bertre, T., Fouqué, P., Hron, J., Kerschbaum, F., Lépine, J.R.D. **274**, 1015 (**99**, 31)

- Probing the AGB tip: luminous carbon stars in the galactic plane
Kastner, J.H., Forveille, T., Zuckerman, B., Omont, A. **275**, 163
 CO and HCN observations of circumstellar envelopes. A catalogue.
 Mass loss rates and distributions
Loup, C., Forveille, T., Omont, A., Paul, J.F. **275**, 354 (**99**, 291)
 Search for hydroxyl in southern cold IRAS sources
Silva, A.M., Azcárate, I.N., Pöppel, W.G.L., Likkel, L. **275**, 510
 The bright end of the planetary nebula luminosity function
Méndez, R.H., Kudritzki, R.P., Ciardullo, R., Jacoby, G.H. **275**, 534
 NLTE analysis of subluminescent O stars: the hot subdwarf in the binary system HD 128220
Rauch, T. **276**, 171
 A systematic study of IRAS selected proto-planetary nebula candidates. I. Selection of the sample and observations of the southern objects
Hu, J.Y., Slijkhuis, S., de Jong, T., Jiang, B.W. **276**, 330 (**100**, 413)
 Carbon stars with excess emission at 60 μm wavelength
Zuckerman, B. **276**, 367
 Near-infrared and optical imaging of Q 2345+007: the largest gravitationally lensed QSO system?
Stanghellini, L., Corradi, R.L.M., Schwarz, H.E. **276**, 463
 An OH satellite line maser survey of cool IRAS sources and circumstellar envelope evolution
David, P., Le Squeren, A.M., Sivagnanam, P. **277**, 453
 Optical and infrared observations of two oxygen-rich Miras: dust shell modelling as a function of phase
Le Sidaner, P., Le Bertre, T. **278**, 167
 SiS₂ in circumstellar shells
Goebel, J.H. **278**, 226
 Near-IR spectroscopy and imaging photometry of M 1-16: bipolar H₂ jets in a post-AGB transition object
Aspin, C., Schwarz, H.E., Smith, M.G., Corradi, R.L.M., Mountain, C.M., Wright, G.S., Ramsay, S.K., Robertson, D., Beard, S.M., Pickup, D.A., Geballe, T.R., Bridger, A., Laird, D., Montgomery, D., Glendinning, R., Pentland, G., Griffin, J.L., Aycock, J. **278**, 255
 The correlations between planetary nebula morphology and central star evolution
Stanghellini, L., Corradi, R.L.M., Schwarz, H.E. **279**, 521
 Erratum: The correlations between planetary nebula morphology and central star evolution
Stanghellini, L., Corradi, R.L.M., Schwarz, H.E. **279**, 674
 Monitoring OH/IR stars at the Galactic centre with the VLA
Van Langevelde, H.J., Janssens, A.M., Goss, W.M., Habing, H.J., Winnberg, A. **279**, 680 (**101**, 109)
 Infrared and SiO maser observations of OH/IR stars
Nyman, L.-Å., Hall, P.J., Le Bertre, T. **280**, 551
Stars: atmospheres
 The effects of stellar surface activity on the strength of the lithium 6708 Å line
Pallavicini, R., Cutispoto, G., Randich, S., Gratton, R. **267**, 145
 A new PG 1159 star discovered in the ROSAT XRT all sky survey: NLTE analysis of X-ray and optical spectra
Motch, C., Werner, K., Pakull, M.W. **268**, 561
 Light curve models for type Ia supernovae: physical assumptions, their influence and validity
Höflich, P., Müller, E., Khokhlov, A. **268**, 570
 Frequency grids in radiative transfer problems
Stift, M.J., Moser, G. **268**, 617
 Two-dimensional models for solar and stellar winds: hydrodynamic effects
Lima, J.J.G., Priest, E.R. **268**, 641
 On the determination of effective temperature and surface gravity of B, A, and F stars using Strömgren *uvby β* photometry
Napiwotzki, R., Schönberner, D., Wenske, V. **268**, 653
 Numerical simulation of the aligned neutron-star magnetosphere
Zachariades, H.A. **268**, 705
 The new Be-type star HD 147196 in the ρ Ophiuchi dark cloud region
Thé, P.S., Pérez, M.R., de Winter, D., van den Ancker, M.E. **269**, 181
 On the photometric homogeneity of Type Ia Supernovae
Bravo, E., Domínguez, I., Isern, J., Canal, R., Höflich, P., Labay, J. **269**, 187
 On the propagation of ideal, linear Alfvén waves in radially stratified stellar atmospheres and winds
Velli, M. **270**, 304
 Empirical effective temperatures and angular diameters of stars cooler than the Sun
Di Benedetto, G.P. **270**, 315
 The interchange instability of stellar magnetic flux tubes
Büntje, M., Saar, S.H. **271**, 167
 Elemental abundances of yttrium and zirconium in the mercury-manganese stars ϕ Herculis, κ Cancri and ι Coronae Borealis
Redfors, A., Cowley, C.R. **271**, 273
 Balmer lines in cool dwarf stars. I. Basic influence of atmospheric models
Fuhrmann, K., Axer, M., Gehren, T. **271**, 451
 Linear analysis of RV Tauri stars: the resonance hypothesis
Tuchman, Y., Lèbre, A., Mennessier, M.O., Yarri, A. **271**, 501
 The method of addition of layers for non-linear radiative transfer problems: practical applications
Magnan, C. **271**, 543
 Infrared observations of atomic hydrogen lines in ζ Puppis
Käufel, H.U. **272**, 452
 The Ga II lines in the red spectrum of Ap stars
Lanz, T., Artru, M.-C., Didelon, P., Mathys, G. **272**, 465
 Dynamics of the decay of confined stellar X-ray flares
Reale, F., Serio, S., Peres, G. **272**, 486
 Galactic B-supergiants. II. Line strengths in the visible – Evidence for evolutionary effects?
Lennon, D.J., Dufton, P.L., Fitzsimmons, A. **272**, 750 (**97**, 559)
 Lithium in RS CVn binaries and related chromospherically active stars. II. Spectrum synthesis analysis
Randich, S., Gratton, R., Pallavicini, R. **273**, 194
 Unified NLTE model atmospheres including spherical extension and stellar winds. IV. Improved line transfer and wind contamination of H, He profiles
Sellmaier, F., Puls, J., Kudritzki, R.P., Gabler, A., Gabler, R., Voels, S.A. **273**, 533
 On the interactions of hydrodynamic shock waves in stellar atmospheres
Fleck, B., Schmitz, F. **273**, 671
 Elemental abundances in normal late-B and HgMn stars from co-added IUE spectra. I. Iron-peak elements
Smith, K.C., Dworetsky, M.M. **274**, 335
 Spectral analyses of the galactic Wolf-Rayet stars: a comprehensive study of the WN class
Hamann, W.-R., Koesterke, L., Wessolowski, U. **274**, 397
 Low temperature Rosseland mean opacities
Neuforge, C. **274**, 818
 In search of real solar twins. III.
Friel, E., Cayrel de Strobel, G., Chmielewski, Y., Spite, M., Lèbre, A., Bentalila, C. **274**, 825
 Polarized resonance line transfer with collisional redistribution
Mohan Rao, D., Rangarajan, K.E. **274**, 993

Long-term spectroscopic monitoring of P Cygni-type stars. I. Spectral atlas of P Cygni

Stahl, O., Mandel, H., Wolf, B., Gäng, T., Kaufer, A., Kneer, R., Szeifert, T., Zhao, F. **274**, 1016 (**99**, 165)

Chromospheric rotational modulation in solar-like stars. I. A method for multi-component modelling of Ca II H and K spectroscopic variability

Char, S., Foing, B.H. **276**, 69

Circumstellar Mg II absorption in UV spectra of hot companions of red giants and the meaning of the Mg II asymmetry dividing line

Hünsch, M., Reimers, D. **276**, 161

NLTE analysis of subliminous O stars: the hot subdwarf in the binary system HD 128220

Rauch, T. **276**, 171

Elemental abundances in normal late-B and HgMn stars from co-added IUE spectra. II. Magnesium, aluminium, and silicon

Smith, K. C. **276**, 393

Cool stars: spectral energy distributions and model atmosphere fluxes

Morossi, C., Franchini, M., Malagnini, M.L., Kurucz, R.L., Buser, R. **277**, 173

A fast non-LTE code for expanding atmospheres: a test of the validity of the Sobolev approximation

de Koter, A., Schmutz, W., Lamers, H.J.G.L.M. **277**, 561

Low amplitude variability and transient periodicity in FF Andromedae and other active stars

Peres, G., Ventura, R., Pagano, I., Rodonò, M. **278**, 179

Line blanketing by iron group elements in non-LTE model atmospheres for hot stars

Dreizler, S., Werner, K. **278**, 199

A new tool to study wave propagation: the Van Hoof effect

Mathias, P., Gillet, D. **278**, 511

Investigation of micro-flaring and secular and quasi-periodic variations in dMe stars. VIII. Phase summation techniques in spectroscopy of Gl 735

Andrews, A.D., Stanek, K.Z. **279**, 197

Intensity of CaH lines in cool dwarfs

Barbui, B., Schiavon, R.P., Gregorio-Hetem, J., Singh, P.D., Batalha, C. **279**, 338 (**101**, 409)

On the synthesis of resonance lines in dynamical models of structured hot-star winds

Puls, J., Owocki, S.P., Fullerton, A.W. **279**, 457

On the numerical calculation of hydrodynamic shock waves in atmospheres by an FCT method

Schmitz, F., Fleck, B. **279**, 499

A spectral atlas of the Herbig Ae star AB Aurigae. The visible domain from 391 to 874 nm

Böhm, T., Catala, C. **279**, 678 (**101**, 629)

A generalized version of the Rankine-Hugoniot relations including ionization, dissociation, radiation and related phenomena

Nieuwenhuijzen, H., de Jager, C., Cuntz, M., Lobel, A., Achmad, L. **280**, 195

A ROSAT observation of δ Orionis A

Haberl, F., White, N.E. **280**, 519

(Stars:) binaries (including multiple): close

Period variations and phase residuals in freely precessing stars

Bisnovaty-Kogan, G.S., Kahabka, P. **267**, L43

Viscous-thermal evolution of free accretion disks around new born neutron stars

Mineshige, S., Nomoto, K., Shigeyama, T. **267**, 95

A spectroscopic ephemeris of the secondary star in the AM Herculis binary V 834 Centauri

Schwöpe, A.D., Thomas, H.-C., Beuermann, K., Reinsch, K. **267**, 103

An empirical torque noise and spin-up model for accretion-powered X-ray pulsars

Baykal, A., Ögelman, H. **267**, 119

Radio spectra of selected Algol-type binaries

Umana, G., Triglio, C., Hjellming, R.M., Catalano, S., Rodonò, M. **267**, 126

The reddening and variability of XX Ophiuchi

Evans, A., Albinson, J.S., Barrett, P., Davies, J.K., Goldsmith, M.J., Hutchinson, M.G., Maddison, R.C. **267**, 161

The effects of heating and accretion on the evolution of binary systems

Huang, R.Q., Yu, K.N. **267**, 392

On the formation rate and space density of close white dwarf main sequence star binaries

de Kool, M., Ritter, H. **267**, 397

Formation of double neutron star systems and asymmetric supernova explosions

Yamaoka, H., Shigeyama, T., Nomoto, K. **267**, 433

Multiple-peaked line profiles from relativistic disks at high inclination angles

Matt, G., Perola, G.C., Stella, L. **267**, 643

On the relative C, N, O abundances and the evolutionary status of yellow symbiotic stars

Schmid, H.M., Nussbaumer, H. **268**, 159

Hard X-ray spectrum of 4U 1907+09

Chitnis, V.R., Rao, A.R., Agrawal, P.C., Manchanda, R.K. **268**, 609

Bipolar nebulae and binary stars: the family of crabs He 2-104, BI Crucis, and MyCn 18

Corradi, R.L.M., Schwarz, H.E. **268**, 714

Lensing effects of gravitational radiation near celestial sources

Labeyrie, A. **268**, 823

Evolution of binaries with a low mass component immersed in a radiation field. I. Effect of irradiation by a millisecond pulsar companion

D'Antona, F., Ergma, E. **269**, 219

A model for the 89 Herculis system

Waters, L.B.F.M., Waelkens, C., Mayor, M., Trams, N.R. **269**, 242

Sub-diffraction-limited infrared speckle observations of Z Canis Majoris, a 0.10 variable binary star

Haas, M., Christou, J.C., Zinnecker, H., Ridgway, S.T., Leinert, C. **269**, 282

Hydrogen and helium shell flashes on massive accreting white dwarfs

José, J., Hernanz, M., Isern, J. **269**, 291

Optical studies of transient low-mass X-ray binaries. IV. A 10-hour distortion wave in the quiescent light curve of GS 2000+25

Chevalier, C., Ilovaisky, S.A. **269**, 301

New optical spectrographic observations of W Serpentis

Barbá, R. **269**, 390

The 17.1-h optical and X-ray orbital period of AC 211/X 2127 + 119 in M 15

Ilovaisky, S.A., Aurière, M., Koch-Miramond, L., Chevalier, C., Cordoni, J.-P., Crowe, R.A. **270**, 139

The ellipsoidal shape of the M giant in T Coronae Borealis

Yudin, B., Munari, U. **270**, 165

Accretion disk flares in energetic radiation fields. A model for hard X-rays from black hole candidates

van Oss, R.F., van den Oord, G.H.J., Kuperus, M. **270**, 275

- Constraints on the illumination model for soft X-ray transients
Gontikakis, C., Hameury, J.-M. **271**, 118
- A model for the intrinsic population of cataclysmic variables
Kolb, U. **271**, 149
- The equilibrium of a contact binary
Hazlehurst, J. **271**, 209
- S stars: infrared colors, technetium, and binarity
Jorissen, A., Frayer, D.T., Johnson, H.R., Mayor, M., Smith, V.V. **271**, 463
- 3D stability analysis of colliding winds in a double star system
Dgani, R. **271**, 527
- Oscillating Urca process in mass-accreting white dwarfs
Aparicio, J.M., Isern, J. **272**, 446
- Optical observations of high energy sources
Bignami, G.F., Caraveo, P.A., Mereghetti, S. **272**, 738 (**97**, 229)
- Hard X-rays from binaries
Hameury, J.-M. **272**, 738 (**97**, 235)
- X-ray variability of galactic black hole candidates
Mereghetti, S. **272**, 738 (**97**, 249)
- Two transient X-ray sources observed with the WATCH experiment
Brandt, S., Castro-Tirado, A.J., Lund, N., Dremin, V., Lapshov, I., Sunyaev, R. **272**, 739 (**97**, 257)
- UV and X-ray emission in the interacting binary U Cephei
Giménez, A., Guinan, E.F., González-Riestra, R. **272**, 739 (**97**, 261)
- Mechanisms of hard X-ray emission from accreting neutron stars
Kluźniak, W. **272**, 739 (**97**, 265)
- A model of the Cygnus X-3 system in the gamma-rays region
Moskalenko, I.V., Karakula, S., Tkaczyk, W. **272**, 739 (**97**, 269)
- SIGMA observations of the X-ray nova in Musca
Goldwurm, A., Ballet, J., Laurent, P., Paul, J., Jourdain, E., Bouchet, L., Mandrou, P., Roques, J.P., Churazov, E., Gilfanov, M., Sunyaev, R., Dyachkov, A., Khavenson, N., Kremnev, R., Sukhanov, K., Kuleshova, N. **272**, 741 (**97**, 293)
- Gamma rays from "hidden" millisecond pulsars
Tavani, M. **272**, 742 (**97**, 313)
- WATCH observations of the X-ray pulsar GX 301-2
Castro-Tirado, A.J., Brandt, S., Lund, N., Dremin, V., Lapshov, I., Sunyaev, R. **272**, 743 (**97**, 329)
- Observation of the X-ray pulsar A 0535+26 with the FIGARO II experiment
Olive, J.F., Agrinier, B., Barouch, E., Comte, R., Costa, E., Cusumano, G.C., Gerardi, G., Mandrou, P., Masnou, J.L., Massaro, E., Matt, G., Mineo, T., Niel, M., Parlier, B., Sacco, B., Salvati, M., Scarsi, L. **272**, 743 (**97**, 335)
- Evolutionary sequences for close binary systems in the mass range 3 to 8 M_{\odot}
De Greve, J.P. **272**, 749 (**97**, 527)
- Optical spectra of He 3-640 (A 1118-61) after the January 1992 X-ray outburst
Polcaro, V.F., Villada, M., Giovannelli, F. **273**, L49
- Detection of two new supersoft X-ray sources in the Large Magellanic Cloud
Orio, M., Ögelman, H. **273**, L56
- Compton modelling of spectral variations observed in Z sources
Schulz, N.S., Wijers, R.A.M.J. **273**, 123
- Studies of symbiotic stars. VII. EG Andromedae
Munari, U. **273**, 425
- Loop modeling of coronal X-ray emission from AR Lacertae
Ottmann, R. **273**, 546
- Proof for a wind from the hot component in the symbiotic system EG Andromedae
Vogel, M. **274**, L21
- Prospects of stellar variability using a CCD: the discovery of a new W Ursae Majoris system in the open cluster NGC 6802
Vidal, I., Belmonte, J.A. **274**, 265
- Two outbursts from A 0538-66 in the ROSAT All-Sky Survey
Mavromatakis, F., Haberl, F. **274**, 304
- Lithium abundance and activity in a sample of RS Canum Venaticorum and BY Draconis stars
Fernández-Figueroa, M.J., Barrado, D., De Castro, E., Cornide, M. **274**, 373
- Long-term behaviour of the orbital period of Algol-type binary ST Persei
Demircan, O., Selam, S.O. **274**, 1012 (**98**, 513)
- The light curve and period variation of BX Andromedae
Demircan, O., Akalin, A., Derman, E. **274**, 1013 (**98**, 583)
- Clues to the structure of the boundary layer in cataclysmic variables from observations of the flickering
Bruch, A., Duschl, W.J. **275**, 219
- Imaging and spectroscopy of Abell 63 (UU Sge)
Walton, N.A., Walsh, J.R., Pottasch, S.R. **275**, 256
- MWC 560: spectral atlas for the region 3600 Å-4900 Å
Kolev, D., Tomov, T. **275**, 687 (**100**, 1)
- Spectroscopic and photometric variability of Cygnus X-3
van Kerkwijk, M.H. **276**, L9
- BV photometry and H α spectroscopy of the RS Canum Venaticorum binary V711 Tauri
Mohin, S., Raveendran, A.V. **276**, 329 (**100**, 331)
- Structure and evolution of X-ray heated compact binaries
Hameury, J.-M., King, A.R., Lasota, J.-P., Raison, F. **277**, 81
- Search for resolved H α nebulae around symbiotic stars and their formation mechanisms
Munari, U., Patat, F. **277**, 195
- Comparison of remnant masses from close binary evolution with estimates derived from new single star models
De Greve, J.P. **277**, 475
- In quest of the secondary in the optical spectrum of the interacting binary V 367 Cygni
Schneider, H., Pavlovski, K., Planinić, M., Ivezić, Ž. **277**, 480
- MS 1603.6+2600: a unique low-luminosity X-ray binary?
Ergma, E., Vilhu, O. **277**, 483
- The apsidal motion test of the internal stellar structure: comparison between theory and observations
Claret, A., Giménez, A. **277**, 487
- On the symbiotic star V 919 Sagittarii
Ivison, R.J., Munari, U., Marang, F. **277**, 510
- The uniqueness of photometric solutions for spotted W Ursae Majoris binaries
Maceroni, C., van 't Veer, F. **277**, 515
- Modification of the nebular environment in symbiotic systems due to colliding winds
Nussbaumer, H., Walder, R. **278**, 209
- Can high-energy γ -ray photons escape from the radiation field emitted by an accretion disk?
Bednarek, W. **278**, 307
- Cyclotron and Zeeman spectroscopy of MR Serpentis in low and high states of accretion
Schwöpe, A.D., Beuermann, K., Jordan, S., Thomas, H.-C. **278**, 487
- The period distribution of cataclysmic binaries evolving without magnetic braking
Kolb, U., de Kool, M. **279**, L5
- "Glitches" in soft X-ray transients: Echoes of the main burst?
Augusteijn, T., Kuulkers, E., Shaham, J. **279**, L13

New BV light curves and photometric solutions for the contact binary SS Arietis

Qingyao Liu, Yulan Yang, Chenghong Gu, Bi Wang **279**, 336 (101, 253)

Observations of stellar winds in high-mass X-ray binaries: evidence for a non-monotonic velocity structure

Kaper, L., Hammerschlag-Hensberge, G., van Loon J.T. **279**, 485

Collisions between a white dwarf and a main-sequence star. III. Simulations including the white dwarf surface

Ruffert, M. **280**, 141

Temperature structure of a particle-heated magnetic atmosphere

Woelk, U., Beuermann, K. **280**, 169

Quick method for calculating energy dissipation in tidal interaction

Portegies Zwart, S.F., Meinen, A.T. **280**, 174

UBVRI linear and circular polarization of RS CVn-type binaries

Scaltriti, F., Pirola, V., Coyne, G.V., Koch, R.H., Elias, N.M., Holenstein, B.D. **280**, 347 (102, 343)

An atlas of high resolution line profiles of symbiotic stars. I. Coudé echelle spectrometry of southern objects and a classification system of H α line profiles

Van Winckel, H., Duerbeck, H.W., Schwarz, H.E. **280**, 348 (102, 401)

The role of the secondary's rotation in disc formation and structure: an SPH three-dimensional analysis

Belvedere, G., Lanzafame, G., Molteni, D. **280**, 525

(Stars:) binaries: eclipsing

Modelling time variable and total eclipses of the millisecond pulsar PSR 1744-24A

Tavani, M., Brookshaw, L. **267**, L1

Radio spectra of selected Algol-type binaries

Umana, G., Trigilio, C., Hjellming, R.M., Catalano, S., Rodonò, M. **267**, 126

Spectral and temporal properties of the X-ray pulsar SMC X-1 at hard X-rays

Kunz, M., Gruber, D.E., Kendziorra, E., Kretschmar, P., Maisack, M., Mony, B., Staubert, R., Döhreiner, S., Englhauser, J., Pietsch, W., Reppin, C., Trümper, J., Efremov, V.V., Kaniovsky, A.S., Kuznetsov, A., Sunyaev, R. **268**, 116

Photometry of ER Vulpeculae: photometric analysis with the WINK-10 code

İbanoğlu, C., Evren, S., Akan, M.C., Tunca, Z., Keskin, V. **269**, 310

New optical spectrographic observations of W Serpentis

Barbá, R. **269**, 390

Daily spectra of radio flares from SS 433 in May/June 1987

Vermeulen, R.C., McAdam, W.B., Trushkin, S.A., Facondi, S.R., Fiedler, R.L., Hjellming, R.M., Johnston, K.J., Corbin, J. **270**, 189

Multicolour photometry of SS 433 during the monitoring campaign in May/June 1987

Aslanov, A.A., Cherepashchuk, A.M., Goranskij, V.P., Rakhimov, V.Y., Vermeulen, R.C. **270**, 200

Monitoring of very rapid changes in the optical spectrum of SS433 in May/June 1987

Vermeulen, R.C., Murdin, P.G., van den Heuvel, E.P.J., Fabrika, S.N., Wagner, R.M., Margon, B., Hutchings, J.B., Schilizzi, R.T., van Kerkwijk, M.H., van den Hoek, L.B., Ott, E., Angebault, L.P., Miley, G.K., D'Odorico, S., Borisov, N. **270**, 204

NJL 5: the eclipsing blue straggler in ω Centauri

Helt, B.E., Jørgensen, H.E., King, S., Larsen, A. **270**, 297

Discovery of the bright eclipsing polar RX J2107.9-0518

Schwöpe, A.D., Thomas, H.-C., Beuermann, K. **271**, L25

An accretion induced collapse model for the eclipsing binary pulsar PSR 1718-19

Ergma, E. **273**, L38

Period and disk radius changes in the dwarf nova IP Pegasi

Wolf, S., Mantel, K.H., Horne, K., Barwig, H., Schoembs, R., Bannantner, O. **273**, 160

Optical spectra of ζ Aurigae binary systems. V. The 1988 eclipse of 22 Vulpeculae

Griffin, R.E.M., Hünsch, M., Marshall, K.P., Griffin, R.F., Schröder, K.-P. **274**, 225

EK Cephei B: a test object for pre-ZAMS models of solar-type stars

Martin, E.L., Rebolo, R. **274**, 274

High resolution spectroscopic observations of TY Coronae Austrinae

Lagrange, A.M., Corporon, P., Bouvier, J. **274**, 785

Long-term behaviour of the orbital period of Algol-type binary ST Persei

Demircan, O., Selam, S.O. **274**, 1012 (98, 513)

The orbit and pulse period of X 1538-522 from Ginga observations

Corbet, R.H.D., Woo, J.W., Nagase, F. **276**, 52

Studies of early-type variable stars. IX. The orbit and physical parameters of V 1425 Cygni

Hill, G., Khalessheh, B. **276**, 57

Improving the eclipse mapping method

Baptista, R., Steiner, J.E. **277**, 331

Absolute dimensions of eclipsing binaries. XX. GG Lupi: young metal-deficient B stars

Andersen, J., Clausen, J.V., Giménez, A. **277**, 439

The spectroscopic orbit of ϵ Coronae Austrinae, an evolved W Ursae Majoris system

Goecking, K.-D., Duerbeck, H.W. **278**, 463

Surface imaging of eclipsing binary stars. I. Techniques

Vincent, A., Piskunov, N.E., Tuominen, I. **278**, 523

Further ROSAT measurements of the period of 4U 1820-30

van der Klis, M., Hasinger, G., Verbunt, F., van Paradijs, J., Belloni, T., Lewin, W.H.G. **279**, L21

Orbital elements of β Lyrae after the first 100 years of investigation

Harmanec, P., Scholz, G. **279**, 131

Four-colour photometry of eclipsing binaries. XXXV. Light curves of GG Lupi: Young metal-deficient B stars

Clausen, J.V., Garcia, J.M., Giménez, A., Helt, B.E., Vaz, L.P.R. **279**, 677 (101, 563)

Studies of early-type variable stars. X. Reticon-based radial velocities of β Persei

Hill, G., Perry, C.L., Khalessheh, B. **279**, 677 (101, 579)

Four-colour photometric study of the short-period eclipsing binary V Crateris

Qingyao Liu **279**, 679 (101, 49)

A ROSAT observation of δ Orionis A

Haberl, F., White, N.E. **280**, 519

(Stars:) binaries: general

A period study of SS Arietis and its implications for the multiplicity of the system

Demircan, O., Selam, S.O. **267**, 107

Stability analysis of colliding winds in a double star system

Dgani, R., Walder, R., Nussbaumer, H. **267**, 155

The effects of heating and accretion on the evolution of binary systems

Huang, R.Q., Yu, K.N. **267**, 392

The K-type supergiant HR 237 (HD 4817)

Griffin, R.F. **268**, 615

High resolution radio map of the X-ray binary LSI +61°303

Massi, M., Paredes, J.M., Estalella, R., Felli, M. **269**, 249

Recent phase changes in X Persei: optical, infrared and X-ray behaviour

Roche, P., Coe, M.J., Fabregat, J., McHardy, I.M., Norton, A.J., Percy, J.R., Reglero, V., Reynolds, A., Unger, S.J. **270**, 122

On the period history of the β Cephei star BW Vulpeculae

Sterken, C. **270**, 259

COYOTES I: the photometric variability and rotational evolution of T Tauri stars

Bouvier, J., Cabrit, S., Fernández, M., Martín, E.L., Matthews, J.M. **272**, 176

Infrared and optical studies of Be star/X-ray binaries

Coe, M.J., Everall, C., Fabregat, J., Gorrod, M.J., Norton, A.J., Reglero, V., Roche, P., Unger, S.J. **272**, 738 (**97**, 245)

Multi-wavelength observations of phase changes in X Persei

Roche, P., Coe, M.J., Everall, C., Fabregat, J., Norton, A.J., Reglero, V., Unger, S.J. **272**, 740 (**97**, 277)

Formation of multiple protostellar systems

Klapp, J., Sigalotti, L.D.G., de Felice, F. **273**, 175

Erratum: The nature of the F str A4077 stars. IV. Search for white dwarfs around barium dwarfs

North, P., Lanz, T. **273**, 720

The light-time effect as the cause of period changes in β Cephei stars.

III. BW Vulpeculae

Pigulski, A. **274**, 269

Tidally-induced warps in T Tauri disks. I. First-order perturbation theory

Terquem, C., Bertout, C. **274**, 291

Axisymmetric accretion flow past large, gravitating bodies

Shankar, A., Kley, W., Burkert, A. **274**, 955

A new approach to Abel's integral operator and its application to stellar winds

Knill, O., Dgani, R., Vogel, M. **274**, 1002

Modelling non-axisymmetric bow shocks

Bandiera, R. **276**, 648

Periodicities in the radio emission of UX Arietis?

Neidhöfer, J., Massi, M., Chiuderi-Drago, F. **278**, L51

Visual binaries among pre-main sequence stars

Reipurth, B., Zinnecker, H. **278**, 81

A systematic search for young binaries in Taurus

Leinert, C., Zinnecker, H., Weitzel, N., Christou, J., Ridgway, S.T., Jameson, R., Haas, M., Lenzen, R. **278**, 129

Quick method for calculating energy dissipation in tidal interaction

Portegies Zwart, S.F., Meinen, A.T. **280**, 174

(Stars:) binaries: spectroscopic

PG 0824+289: a dwarf carbon star with a visible white dwarf companion

Heber, U., Bade, N., Jordan, S., Voges, W. **267**, L31

A spectroscopic study of the Z Camelopardalis type dwarf nova KT Persei

Ratering, C., Bruch, A., Diaz, M. **268**, 694

A spectroscopic search for nonradial pulsations in the δ Scuti stars δ Delphini and ϵ Cephei

Baade, D., Bardelli, S., Beaulieu, J.P., Vogel, S. **269**, 195

Statistical analysis of a sample of spectroscopic binaries containing late-type giants

Boffin, H.M.J., Cerf, N., Paulus, G. **271**, 125

S stars: infrared colors, technetium, and binarity

Jorissen, A., Frayer, D.T., Johnson, H.R., Mayor, M., Smith, V.V. **271**, 463

Hot subluminous stars at high galactic latitudes. IV. Physical parameters and distances of 18 hot subdwarf stars and their spatial distribution

Theissen, A., Moehler, S., Heber, U., de Boer, K.S. **273**, 524

Optical spectra of ζ Aurigae binary systems. V. The 1988 eclipse of 22 Vulpeculae

Griffin, R.E.M., Hünsch, M., Marshall, K.P., Griffin, R.F., Schröder, K.-P. **274**, 225

A catalog of chromospherically active binary stars (second edition)

Strassmeier, K.G., Hall, D.S., Fekel, F.C., Scheck, M. **275**, 688 (**100**, 173)

Circumstellar Mg II absorption in UV spectra of hot companions of red giants and the meaning of the Mg II asymmetry dividing line

Hünsch, M., Reimers, D. **276**, 161

Optical spectroscopy and photometry of the companion of the bright millisecond pulsar J 0437-4715

Danziger, I.J., Baade, D., Della Valle, M. **276**, 382

BV photometry and H α spectroscopy of the RS Canum Venaticorum binary II Pegasi

Mohin, S., Raveendran, A.V. **277**, 155

Coming shell phase of the Be star 4 Herculis

Koubský, P., Horn, J., Harmanec, P., Hubert, A.-M., Hubert, H., Floquet, M. **277**, 521

The nature of the high latitude B-type binary, SU Piscium

Dufton, P.L., Holmgren, D., Conlon, E.S., Keenan, F.P. **278**, 68

The spectroscopic orbit of ϵ Coronae Austrinae, an evolved W Ursae Majoris system

Goecking, K.-D., Duerbeck, H.W. **278**, 463

Orbital elements of β Lyrae after the first 100 years of investigation

Harmanec, P., Scholz, G. **279**, 131

Study of the Population II Cepheid AU Pegasi

Vinkó, J., Szabados, L., Szatmáry, K. **279**, 410

(Stars:) binaries: visual

Remarks on the information content of stellar images obtained with CCD detectors

Müller, R., Geyer, E.H. **270**, 557

New double stars (23rd series) discovered at Nice with the 50 cm refractor (*Text in French*)

Couteau, P. **272**, 749 (**97**, 511)

A photometric study of wide visual double stars. IV. *uvby* photometry of wide visual double stars with G-type primaries

Sinachopoulos, D., van Dessel, E. **273**, 350 (**98**, 17)

Orbits of visual binaries

Heintz, W.D. **273**, 353 (**98**, 209)

In search of real solar twins. III.

Friel, E., Cayrel de Strobel, G., Chmielewski, Y., Spite, M., Lèbre, A., Bentolila, C. **274**, 825

Photometry of visual binaries most of which have known orbits

Sinachopoulos, D. **274**, 1014 (**99**, 11)

Orbital elements of 19 double stars (*Text in French*)

Baize, P. **275**, 353 (**99**, 205)

Measures of close binaries observed at the Pic du Midi Observatory (*Text in French*)

Couteau, P., Docobo, J.A., Ling, J. **276**, 328 (**100**, 305)

CCD astrometry and instrumental ΔV photometry of wide visual double stars. III. Differential measurements of often observed southern pairs

van Dessel, E., Sinachopoulos, D. **277**, 362 (**100**, 517)

Micrometer measurements of visual double stars made at the Spanish observatories at Calar Alto and Fabra

Docobo, J.A., Prieto, C. **277**, 364 (**100**, 641)

The substellar masses of Wolf 424. II

Heintz, W.D. **277**, 452

Hubble space telescope astrometric observations of pre-main sequence stars from the HIPPARCOS program

Bernacca, P.L., Lattanzi, M.G., Bucciarelli, B., Bastian, U., Barbaro, G., Pannunzio, R., Badiali, M., Cardini, D., Emanuele, A. **278**, L47

Visual binaries among pre-main sequence stars

Reipurth, B., Zinnecker, H. **278**, 81

Double star measurements made at Nice (Text in French)

Muller, P. **280**, 350 (**102**, 643)

Stars: carbon

PG 0824+289: a dwarf carbon star with a visible white dwarf companion

Heber, U., Bade, N., Jordan, S., Voges, W. **267**, L31

Synthetic AGB evolution. I. A new model

Groenewegen, M.A.T., de Jong, T. **267**, 410

Characterization and proportion of very cold C-rich circumstellar envelopes

Omont, A., Loup, C., Forveille, T., te Lintel Hekkert, P., Habing, H.J., Sivagnanam, P. **267**, 515

On the relative C, N, O abundances and the evolutionary status of yellow symbiotic stars

Schmid, H.M., Nussbaumer, H. **268**, 159

Modelling of the CO emission around the carbon star S Scuti

Bergman, P., Carlström, U., Olofsson, H. **268**, 685

A molecular radio line survey of the carbon star IRAS 15194-5115

Nyman, L.-Å., Olofsson, H., Johansson, L.E.B., Booth, R.S., Carlström, U., Wolstencroft, R. **269**, 377

Dust shell modelling of the carbon star IRAS 15194-5115

Lopez, B., Perrier, C., Mékarnia, D., Lefèvre, J., Gay, J. **270**, 462

Detailed modelling of the shell around S Scuti

Eriksson, K., Stenholm, L. **271**, 508

Experimental results for ion-molecule reactions of fullerenes: implications for interstellar and circumstellar chemistry

Petrie, S., Javahery, G., Bohme, D.K. **271**, 662

Lithium abundances in a flux-limited sample of galactic carbon stars

Abia, C., Boffin, H.M.J., Isern, J., Rebolo, R. **272**, 455

Carbon stars in the Small Magellanic Cloud. II. Catalogue of 1707 objects with identifications and spectrophotometry

Rebeiro, E., Azzopardi, M., Westerlund, B.E. **272**, 751 (**97**, 603)

Carbon dust formation on interstellar grains

Jenniskens, P., Baratta, G.A., Kouchi, A., de Groot, M.S., Greenberg, J.M., Strazzulla, G. **273**, 583

Identification of 106 new infrared carbon stars in the IRAS Point Source Catalog: near-infrared photometry and their space distribution in the Galaxy

Guglielmo, F., Epchtein, N., Le Bertre, T., Fouqué, P., Hron, J., Kerschbaum, F., Lépine, J.R.D. **274**, 1015 (**99**, 31)

On the Li production by galactic C stars

Abia, C., Isern, J., Canal, R. **275**, 96

Probing the AGB tip: luminous carbon stars in the galactic plane

Kastner, J.H., Forveille, T., Zuckerman, B., Omont, A. **275**, 163

CO and HCN observations of circumstellar envelopes. A catalogue. Mass loss rates and distributions

Loup, C., Forveille, T., Omont, A., Paul, J.F. **275**, 354 (**99**, 291)

Carbon stars with excess emission at 60 μ m wavelength

Zuckerman, B. **276**, 367

Optical photometry of carbon stars

Groenewegen, M.A.T., de Jong, T. **279**, 336 (**101**, 267)

Near-infrared and sub-millimeter photometry of carbon stars

Groenewegen, M.A.T., de Jong, T., Baas, F. **279**, 676 (**101**, 513)

A catalogue of Li abundances and equivalent widths in a sample of galactic C-stars

Boffin, H.M.J., Abia, C., Isern, J., Rebolo, R. **280**, 347 (**102**, 361)

SiC in circumstellar shells around C stars

Lorenz-Martins, S., Lefèvre, J. **280**, 567

Stars: chemically peculiar

IRAS colours of Li-rich giants

Gregorio-Hetem, J., Castilho, B.V., Barbuy, B. **268**, L25

Spectrophotometric behavior of 56 Arietis

Śtepień, K., Czechowski, W. **268**, 187

Separation of chemical elements and isotopes in chemically peculiar stellar atmospheres by the light-induced drift effect

Nasyrov, K.A., Shalagin, A.M. **268**, 201

On the determination of effective temperature and surface gravity of B, A, and F stars using Strömgren *uvby* photometry

Napiwotzki, R., Schönberner, D., Wenske, V. **268**, 653

Periodic radio emission from the helium-strong stars HD 37017 and σ Ori E

Leone, F., Umana, G. **268**, 667

A study of magnetic fields in Ap Si and He weak stars

Bohlender, D.A., Landstreet, J.D., Thompson, I.B. **269**, 355

Effective temperature of Ap and Am stars from Geneva photometry

Hauck, B., North, P. **269**, 403

uvby photometry of the suspected variable stars 53 Tauri, 68 Tauri, HR 4072, and HR 6096

Adelman, S.J. **269**, 411

Spectral analysis of DY Centauri, a hot R Coronae Borealis star with an unusually high hydrogen content

Jeffery, C.S., Heber, U. **270**, 167

Linear polarimetry of Ap stars. II. New observations with a reappraisal of former ones

Leroy, J.L., Landolfi, M., Landi Degl'Innocenti, E. **270**, 335

Elemental abundances of yttrium and zirconium in the mercury-manganese stars ϕ Herculis, κ Cancri and ι Coronae Borealis

Redfors, A., Cowley, C.R. **271**, 273

The atmospheric parameters of A and F stars. I. Comparison of various methods

Smalley, B., Dworetzky, M.M. **271**, 515

Linear polarimetry of Ap stars. I. A simple canonical model

Landolfi, M., Landi Degl'Innocenti, E., Landi Degl'Innocenti, M., Leroy, J.L. **272**, 285

The Ga II lines in the red spectrum of Ap stars

Lanz, T., Artru, M.-C., Didelon, P., Mathys, G. **272**, 465

Light variability of some CP Si stars

Catalano, F.A., Leone, F. **272**, 749 (**97**, 501)

Third supplement to the catalogue of observed periods of Ap stars

Catalano, F.A., Renson, P., Leone, F. **273**, 354 (**98**, 269)

The circumstellar matter of the magnetic helium-strong star HD 37017

Leone, F. **273**, 509

Elemental abundances in normal late-B and HgMn stars from co-added IUE spectra. I. Iron-peak elements

Smith, K.C., Dworetzky, M.M. **274**, 335

The atmospheric parameters of A and F stars. II. The calibration of the Strömgren δm_0 index for A-type stars

Smalley, B. **274**, 391

Compositional differences among the A-type stars. I. Six narrow-lined stars

Hill, G.M., Landstreet, J.D. **276**, 142

The light variations of some southern CP2 stars

Catalano, F.A., Leone, F. **276**, 328 (**100**, 319)

The spectrum of FG Sge in 1992

Kipper, T., Kipper, M. **276**, 389

Elemental abundances in normal late-B and HgMn stars from co-added IUE spectra. II. Magnesium, aluminium, and silicon

Smith, K. C. **276**, 393

Abundance analysis of λ Bootis stars

Stürenburg, S. **277**, 139

The chemically peculiar star HD 37808

Leone, F., Catalano, F.A., Manfrè, M. **279**, 167

Spectral analysis of LSE 78: an extreme helium star similar to BD - 9° 4395 and DY Centauri

Jeffery, C.S. **279**, 188

Spectrophotometry of peculiar B and A stars. XIX. Variability of the magnetic CP stars

Adelman, S.J., Pyper, D.M. **279**, 337 (**101**, 393)

Photoelectric search for peculiar stars in open clusters. XIV. NGC 1901, NGC 2169, NGC 2343, Cr 132, NGC 2423 and NGC 2447

Maitzen, H.M. **280**, 343 (**102**, 1)

A search for magnetic fields in Am stars

Lanz, T., Mathys, G. **280**, 486

Stars: chromospheres

Lyman α emission in spectra of Herbig Ae stars. An indication of accretion?

Blondel, P.F.C., Talavera, A., Tjin A Djie, H.R.E. **268**, 624

Surface features of the lower atmosphere of HD 82558 (=LQ Hydrae)

Strassmeier, K.G., Rice, J.B., Wehlau, W.H., Hill, G.M., Matthews, J.M. **268**, 671

Rotational modulation and flares on RS Canum Venaticorum and BY Draconis stars. XVII. UV spectroscopy and optical photometry of AU Microscopii in 1986

Quin, D.A., Doyle, J.G., Butler, C.J., Byrne, P.B., Swank, J.H. **272**, 477

On the cause of luminosity-colour variation in the active binary system DH Leonis

Aslan, Z. **273**, 147

A study of activity in F-type main-sequence stars using the D₃ line of He I

García López, R.J., Rebolo, R., Beckman, J.E., McKeith, C.D. **273**, 482

Optical spectra of ζ Aurigae binary systems. V. The 1988 eclipse of 22 Vulpeculae

Griffin, R.E.M., Hünsch, M., Marshall, K.P., Griffin, R.F., Schröder, K.-P. **274**, 225

Lithium abundance and activity in a sample of RS Canum Venaticorum and BY Draconis stars

Fernández-Figueroa, M.J., Barrado, D., De Castro, E., Cornide, M. **274**, 373

Chromospheric rotational modulation in solar-like stars. I. A method for multi-component modelling of Ca II H and K spectroscopic variability

Char, S., Foing, B.H. **276**, 69

The importance of surface inhomogeneities for K and M dwarf chromospheric fluxes

Panagi, P.M., Mathioudakis, M. **276**, 329 (**100**, 343)

Simulated imaging of the upper atmosphere of active stars

Donati, J.-F., Catala, C. **277**, 123

BV photometry and H α spectroscopy of the RS Canum Venaticorum binary II Pegasi

Mohin, S., Raveendran, A.V. **277**, 155

Activity in late-type stars. IX. The weakest chromosphere M dwarf yet discovered: Gl 105B

Byrne, P.B. **278**, 520

(Stars:) circumstellar matter

The β Pictoris protoplanetary system. XIV. Simultaneous observations of the Ca II H and K lines: evidence for diffuse and broad absorption features

Ferlet, R., Lagrange-Henri, A.-M., Beust, H., Vitry, R., Zimmerman, J.-P., Martin, M., Char, S., Belmahdi, M., Clavier, J.-P., Coupiac, P., Foing, B.H., Sevre, F., Vidal-Madjar, A. **267**, 137

Stability analysis of colliding winds in a double star system

Dgani, R., Walder, R., Nussbaumer, H. **267**, 155

The reddening and variability of XX Ophiuchi

Evans, A., Albinson, J.S., Barrett, P., Davies, J.K., Goldsmith, M.J., Hutchinson, M.G., Maddison, R.C. **267**, 161

The β Pictoris circumstellar disk. XV. Highly ionized species near β Pictoris

Deleuil, M., Gry, C., Lagrange-Henri, A.-M., Vidal-Madjar, A., Beust, H., Ferlet, R., Moos, H.W., Livengood, T.A., Ziskin, D., Feldman, P.D., McGrath, M.A. **267**, 187

S-bearing molecules in O-rich circumstellar envelopes

Omont, A., Lucas, R., Morris, M., Guilloteau, S. **267**, 490

Characterization and proportion of very cold C-rich circumstellar envelopes

Omont, A., Loup, C., Forveille, T., te Lintel Hekkert, P., Habing, H.J., Sivagnanam, P. **267**, 515

The outflowing dust around η Carinae

Meaburn, J., Walsh, J.R., Wolstencroft, R.D. **268**, 283

Periodic radio emission from the helium-strong stars HD 37017 and σ Ori E

Leone, F., Umana, G. **268**, 667

Modelling of the CO emission around the carbon star S Scuti

Bergman, P., Carlström, U., Olofsson, H. **268**, 685

Erratum: Identification of IRAS point sources in Scorpio-Centaurus-Lupus

Carballo, R., Wesseli, P.R., Whittet, D.C.B. **268**, 832

The mass loss history of high latitude supergiants

van der Veen, W.E.C.J., Trams, N.R., Waters, L.B.F.M. **269**, 231

A model for the 89 Herculis system

Waters, L.B.F.M., Waelkens, C., Mayor, M., Trams, N.R. **269**, 242

Sub-diffraction-limited infrared speckle observations of Z Canis Majoris, a 0.710 variable binary star

Haas, M., Christou, J.C., Zinnecker, H., Ridgway, S.T., Leinert, C. **269**, 282

Evidence for a yellow-supergiant phase of AG Carinae

Robberto, M., Ferrari, A., Nota, A., Paresce, F. **269**, 330

A molecular radio line survey of the carbon star IRAS 15194-5115

Nyman, L.-Å., Olofsson, H., Johansson, L.E.B., Booth, R.S., Carlström, U., Wolstencroft, R. **269**, 377

Long-term changes in emission line and continuum spectrum of the Be star γ Cassiopeiae: H β V/R and IR continuum flux variations

Teltel, J.H., Waters, L.B.F.M., Persi, P., Dunlop, S.R. **270**, 355

Anomalous dust in the environment of Herbig Ae/Be stars

Gorti, U., Bhatt, H.C. **270**, 426

Dust shell modelling of the carbon star IRAS 15194-5115

Lopez, B., Perrier, C., Mékarnia, D., Lefèvre, J., Gay, J. **270**, 462

Detection of a 400 AU disk-like structure surrounding the young stellar object Z CMa

Malbet, F., Rigaut, F., Bertout, C., Léna, P. **271**, 19

On the infrared properties of S-stars with and without technetium

Groenewegen, M.A.T. **271**, 180

S stars: infrared colors, technetium, and binarity

Jorissen, A., Frayer, D.T., Johnson, H.R., Mayor, M., Smith, V.V. **271**, 463

- Polarimetric line profiles from optically thin Thomson scattering circumstellar envelopes
Wood, K., Brown, J.C., Fox, G.K. **271**, 492
- Detailed modelling of the shell around S Scuti
Eriksson, K., Stenholm, L. **271**, 508
- 3D stability analysis of colliding winds in a double star system
Dgani, R. **271**, 527
- Near-infrared speckle interferometry of Lk H α 233
Leinert, C., Haas, M., Weitzel, N. **271**, 535
- Infrared observations of possible hot post-asymptotic giant branch stars
Conlon, E.S., Dufton, P.L., Keenan, F.P., McCausland, R.J.H., Little, J.E. **272**, 243
- Oxygen-rich late-type star lightcurves in the 1–20 μ m range
Le Bertre, T. **272**, 751 (**97**, 729)
- A detailed study of the sparse open cluster Roslund 3: a case for circumstellar extinction
Turner, D.G. **272**, 752 (**97**, 755)
- IRAS 17150–3224: a young, optically bipolar, proto-planetary nebula
Hu, J.Y., Slijkhuis, S., Nguyen-Q-Rieu, de Jong, T. **273**, 185
- Cold dust around Herbig-Haro energy sources: a 1300 μ m survey
Reipurth, B., Chini, R., Krügel, E., Kreysa, E., Sievers, A. **273**, 221
- An OH mainline maser survey of IRAS circumstellar envelope sources
David, P., Le Squeren, A.M., Sivagnanam, P., Braz, M.A. **273**, 354 (**98**, 245)
- The circumstellar matter of the magnetic helium-strong star HD 37017
Leone, F. **273**, 509
- Radiation hydrodynamics in atmospheres of long-period variables
Feuchtinger, M.U., Dorfi, E.A., Höfner, S. **273**, 513
- Circumstellar dust in Mira variables and the mass loss mechanisms
Anandaramo, B.G., Pottasch, S.R., Vaidya, D.B. **273**, 570
- Tidally-induced warps in T Tauri disks. I. First-order perturbation theory
Terquem, C., Bertout, C. **274**, 291
- UBVR polarimetry of the peculiar R CrB star V 854 Centauri
Rao, N.K., Raveendran, A.V. **274**, 330
- H α outbursts of μ Centauri: a clue to the Be phenomenon?
Hanuschik, R.W., Dachs, J., Baudzus, M., Thimm, G. **274**, 356
- High resolution spectroscopic observations of TY Coronae Austrinae
Lagrange, A.M., Corporon, P., Bouvier, J. **274**, 785
- Ultraviolet observations of the circumstellar envelope of α^1 Herculis in the line of sight of α^2 Herculis
Thiering, I., Reimers, D. **274**, 838
- New bright Be stars and the Be star frequency
Coté, J., van Kerkwijk, M.H. **274**, 870
- Observation of the central part of the β Pictoris disk with an anti-blooming CCD
Lecavelier des Etangs, A., Perrin, G., Ferlet, R., Vidal-Madjar, A., Colas, F., Buil, C., Sèvre, F., Arlot, J.-E., Beust, H., Lagrange-Henri, A.-M., Lecacheux, J., Deleuil, M., Gry, C. **274**, 877
- X-ray emission from the collision of the ejecta with the ring nebula around SN 1987A
Suzuki, T., Shigeyama, T., Nomoto, K. **274**, 883
- Diffuse absorption bands in the spectra of mass-losing objects
Le Bertre, T., Lequeux, J. **274**, 909
- Identification of 106 new infrared carbon stars in the IRAS Point Source Catalog: near-infrared photometry and their space distribution in the Galaxy
Guglielmo, F., Epchtein, N., Le Bertre, T., Fouqué, P., Hron, J., Kerschbaum, F., Lépine, J.R.D. **274**, 1015 (**99**, 31)
- Probing the AGB tip: luminous carbon stars in the galactic plane
Kastner, J.H., Forveille, T., Zuckerman, B., Omont, A. **275**, 163
- Search for hydroxyl in southern cold IRAS sources
Silva, A.M., Azcárate, I.N., Pöppel, W.G.L., Likkell, L. **275**, 510
- Very small dust grains in the circumstellar environment of Herbig Ae/Be stars
Natta, A., Prusti, T., Krügel, E. **275**, 527
- A 1.3 mm survey for circumstellar dust around young Chamaeleon objects
Henning, T., Pfau, W., Zinnecker, H., Prusti, T. **276**, 129
- Circumstellar Mg II absorption in UV spectra of hot companions of red giants and the meaning of the Mg II asymmetry dividing line
Hünsch, M., Reimers, D. **276**, 161
- Anisotropic light scattering in a spherical shell
Bosma, P.B. **276**, 303
- A systematic study of IRAS selected proto-planetary nebula candidates. I. Selection of the sample and observations of the southern objects
Hu, J.Y., Slijkhuis, S., de Jong, T., Jiang, B.W. **276**, 330 (**100**, 413)
- AG Carinae. III. The 1990 hot phase of the star and the physical structure of the circumstellar environment
Viotti, R., Polcaro, V.F., Rossi, C. **276**, 432
- HC $_3$ N from the envelopes of IRC+10216 and CRL2688
Truong-Bach, Graham, D., Nguyen-Q-Rieu **277**, 133
- Abundance analysis of λ Bootis stars
Stürenburg, S. **277**, 139
- The cloudy circumstellar dust shell of WW Vulpeculae revisited
Friedemann, C., Reimann, H.-G., Gürtler, J., Tóth, V. **277**, 184
- Search for resolved H α nebulae around symbiotic stars and their formation mechanisms
Munari, U., Patat, F. **277**, 195
- Dust formation in stellar winds. VI. Moment equations for the formation of heterogeneous and core-mantle grains
Dominik, C., Sedlmayr, E., Gail, H.-P. **277**, 578
- Optical and infrared observations of two oxygen-rich Miras: dust shell modelling as a function of phase
Le Sidaner, P., Le Bertre, T. **278**, 167
- SiSi $_2$ in circumstellar shells
Goebel, J.H. **278**, 226
- The circumstellar gleam from the T Tauri star RY Lupi
Gahm, G.F., Liseau, R., Gullbring, E., Hartstein, D. **279**, 477
- The influence of ice-coated grains on protostellar spectra
Preibisch, T., Ossenkopf, V., Yorke, H.W., Henning, T. **279**, 577
- Near-infrared and sub-millimeter photometry of carbon stars
Groenewegen, M.A.T., de Jong, T., Baas, F. **279**, 676 (**101**, 513)
- The exciting sources of Herbig-Haro objects. I. A catalogue of 1–20 μ m observations
Molinari, S., Liseau, R., Lorenzetti, D. **279**, 680 (**101**, 59)
- Classification and statistical properties of galactic H $_2$ O masers
Palagi, F., Cesaroni, R., Comoretto, G., Felli, M., Natale, V. **279**, 681 (**101**, 153)
- MgNC and the carbon-chain radicals in IRC+10216
Guélin, M., Lucas, R., Cernicharo, J. **280**, L19
- The hot R Coronae Borealis star DY Centauri: nebular and photospheric lines
Rao, N.K., Giridhar, S., Lambert, D.L. **280**, 201
- uvby β and JHKLM photometry of peculiar stars in the galactic cluster NGC 2264
Neri, L.J., Chavarría-K., C., de Lara, E. **280**, 345 (**102**, 201)
- UBVRl linear and circular polarization of RS CVn-type binaries
Scaltriti, F., Pirola, V., Coyne, G.V., Koch, R.H., Elias, N.M., Holenstein, B.D. **280**, 347 (**102**, 343)
- The role of the secondary's rotation in disc formation and structure: an SPH three-dimensional analysis
Belvedere, G., Lanzafame, G., Molteni, D. **280**, 525

SiC in circumstellar shells around C stars

Lorenz-Martins, S., Lefèvre, J. **280**, 567

Porous grains and polarization of light: the silicate features

Henning, T., Stognienko, R. **280**, 609

Stars: coronae

Magnetic activity in dwarf stars with shallow convective envelopes
Schrijver, C.J. **269**, 446

Dynamics of the decay of confined stellar X-ray flares

Reale, F., Serio, S., Peres, G. **272**, 486

UV and X-ray emission in the interacting binary U Cephei

Giménez, A., Guinan, E.F., González-Riestra, R. **272**, 739 (**97**, 261)

A study of activity in F-type main-sequence stars using the D₃ line of He I

García López, R.J., Rebolo, R., Beckman, J.E., McKeith, C.D. **273**, 482

Erratum: Radio and X-ray emission from main-sequence K stars

Güdel, M. **273**, 719

Extreme ultra violet plasma diagnostic: a test using EUVE calibration data

Landini, M., Monsignori Fossi, B.C. **275**, L17

MHD equilibria with flows in uniform gravity. II. A class of exact 2-D loop-like solutions

Tsinganos, K., Surlantzis, G., Priest, E.R. **275**, 613

ROSAT all-sky X-ray survey of the core region of the Pleiades cluster

Schmitt, J.H.M.M., Kahabka, P., Stauffer, J., Pifers, A.J.M. **277**, 114

ROSAT-detection of a giant X-ray flare on LkH α 92

Preibisch, T., Zinnecker, H., Schmitt, J.H.M.M. **279**, L33

Investigation of micro-flaring and secular and quasi-periodic variations in dMe stars. VIII. Phase summation techniques in spectroscopy of Gl 735

Andrews, A.D., Stanek, K.Z. **279**, 197

Stars: distances

A re-analysis of the period shifts in RR Lyrae stars

Fernley, J.A. **268**, 591

A series of VLBI images of SS 433 during the outbursts in May/June 1987

Vermeulen, R.C., Schilizzi, R.T., Spencer, R.E., Romney, J.D., Fejes, I. **270**, 177

Hot subluminous stars at high galactic latitudes. IV. Physical parameters and distances of 18 hot subdwarf stars and their spatial distribution

Theissen, A., Moehler, S., Heber, U., de Boer, K.S. **273**, 524

Ultraviolet observations of the circumstellar envelope of α^1 Herculis in the line of sight of α^2 Herculis

Thiering, I., Reimers, D. **274**, 838

Study of nova shells. I. V 1229 Aquilae (1970): nebular expansion parallax and luminosity

Della Valle, M., Duerbeck, H.W. **275**, 239

Parallactic variation of gravitational lensing and measurement of stellar mass

Hosokawa, M., Ohnishi, K., Fukushima, T., Takeuti, M. **278**, L27

UES and IUE observations of the O9.5 V star HD 93521: non-radial pulsations, wind, and distance

Howarth, I.D., Reid, A.H.N. **279**, 148

Stars: early-type

On the determination of effective temperature and surface gravity of B, A, and F stars using Strömgren *uvby β* photometry

Napiwotzki, R., Schönberner, D., Wenske, V. **268**, 653

The nature of two blue stars in the galactic halo

Conlon, E.S., Theissen, A., Moehler, S. **269**, L1

Intrinsic colours of O, B and early A-type stars in the Geneva system

Cramer, N. **269**, 457

The chemical compositions of the distant galactic open clusters Bochim 1 and NGC 1893

Rolleston, W.R.J., Brown, P.J.F., Dufton, P.L., Fitzsimmons, A. **270**, 107

A far UV investigation of luminous hot stars in the SMC cluster NGC 330

Caloi, V., Cassatella, A., Castellani, V., Walker, A. **271**, 109

Infrared observations of possible hot post-asymptotic giant branch stars

Conlon, E.S., Dufton, P.L., Keenan, F.P., McCausland, R.J.H., Little, J.E. **272**, 243

Infrared observations of atomic hydrogen lines in ζ Puppis

Käufl, H.U. **272**, 452

Three known and twenty-two new variable stars of early spectral type

Jerzykiewicz, M. **272**, 748 (**97**, 421)

Galactic B-supergiants. II. Line strengths in the visible – Evidence for evolutionary effects?

Lennon, D.J., Dufton, P.L., Fitzsimmons, A. **272**, 750 (**97**, 559)

A detailed study of the sparse open cluster Roslund 3: a case for circumstellar extinction

Turner, D.G. **272**, 752 (**97**, 755)

An embedded cluster of stars at the Rosette GMC CO peak

Block, D.L., Geballe, T.R., Dyson, J.E. **273**, L41

On the nature of the stellar cluster at the Rosette GMC CO peak

Hanson, M.M., Geballe, T.R., Conti, P.S., Block, D.L. **273**, L44

Short-term line-profile variations and episodic mass loss in the Be star ζ Ophiuchi

Kambe, E., Ando, H., Hirata, R. **273**, 435

Intrinsic IR colours of normal B-type stars using the Geneva visual and ESO IR photometric systems

Dougherty, S.M., Cramer, N., van Kerkwijk, M.H., Taylor, A.R., Waters, L.B.F.M. **273**, 503

Hot subluminous stars at high galactic latitudes. IV. Physical parameters and distances of 18 hot subdwarf stars and their spatial distribution

Theissen, A., Moehler, S., Heber, U., de Boer, K.S. **273**, 524

Unified NLTE model atmospheres including spherical extension and stellar winds. IV. Improved line transfer and wind contamination of H, He profiles

Sellmaier, F., Puls, J., Kudritzki, R.P., Gabler, A., Gabler, R., Voels, S.A. **273**, 533

Periodic spectral variations of θ^1 Orionis C

Stahl, O., Wolf, B., Gäng, T., Gummersbach, C.A., Kaufer, A., Kovacs, J., Mandel, H., Szeifert, T. **274**, L29

Elemental abundances in normal late-B and HgMn stars from co-added IUE spectra. I. Iron-peak elements

Smith, K.C., Dworetzky, M.M. **274**, 335

New bright Be stars and the Be star frequency

Coté, J., van Kerkwijk, M.H. **274**, 870

Studies of early-type variable stars. IX. The orbit and physical parameters of V 1425 Cygni

Hill, G., Khalessah, B. **276**, 57

The 0.1–2.5 keV X-ray spectrum of the O4f star ζ Puppis

Hillier, D.J., Kudritzki, R.P., Pauldrach, A.W., Baade, D., Cassinelli, J.P., Puls, J., Schmitt, J.H.M.M. **276**, 117

Elemental abundances in normal late-B and HgMn stars from co-added IUE spectra. II. Magnesium, aluminium, and silicon

Smith, K. C. **276**, 393

The chemical compositions of four B-type stars in the Small Magellanic Cloud

Rolleston, W.R.J., Dufton, P.L., Fitzsimmons, A., Howarth, I.D., Irwin, M.J. **277**, 10

Abundance analysis of λ Bootis stars

Stürenburg, S. **277**, 139

A multi-transitional molecular and atomic line study of S 140

Minchin, N.R., White, G.J., Padman, R. **277**, 595

HDE 269828: a reddened massive star cluster

Heydari-Malayeri, M., Grebel, E.K., Melnick, J., Jorda, L. **278**, 11

The nature of the high latitude B-type binary, SU Piscium

Dufton, P.L., Holmgren, D., Conlon, E.S., Keenan, F.P. **278**, 68

Line blanketing by iron group elements in non-LTE model atmospheres for hot stars

Dreizler, S., Werner, K. **278**, 199

UES and IUE observations of the O9.5 V star HD 93521: non-radial pulsations, wind, and distance

Howarth, I.D., Reid, A.H.N. **279**, 148

On the synthesis of resonance lines in dynamical models of structured hot-star winds

Puls, J., Owocki, S.P., Fullerton, A.W. **279**, 457

Observations of stellar winds in high-mass X-ray binaries: evidence for a non-monotonic velocity structure

Kaper, L., Hammerschlag-Hensberge, G., van Loon J.T. **279**, 485

NGC 2371: a high excitation planetary nebula with an O VI nucleus

Kaler, J.B., Stanghellini, L., Shaw, R.A. **279**, 529

Anomalous proper motions in the Cygnus Superbubble region

Comerón, F., Torra, J., Jordi, C., Gómez, A.E. **279**, 679 (**101**, 37)

The Orion radio zoo revisited: source variability

Felli, M., Taylor, G.B., Catarzi, M., Churchwell, E., Kurtz, S. **279**, 680 (**101**, 127)

Mode identification of pulsating stars from line profile variations with the moment method. A theoretical study of the accuracy of the method

De Pauw, M., Aerts, C., Waelkens, C. **280**, 493

R 40: the first luminous blue variable in the Small Magellanic Cloud

Szeifert, T., Stahl, O., Wolf, B., Zickgraf, F.-J., Bouchet, P., Klare, G. **280**, 508

A ROSAT observation of δ Orionis A

Haberl, F., White, N.E. **280**, 519

Stars: emission-line, Be

PG 0824+289: a dwarf carbon star with a visible white dwarf companion

Heber, U., Bade, N., Jordan, S., Voges, W. **267**, L31

The reddening and variability of XX Ophiuchi

Evans, A., Albinson, J.S., Barrett, P., Davies, J.K., Goldsmith, M.J., Hutchinson, M.G., Maddison, R.C. **267**, 161

Star formation in Bok globules and low-mass clouds. V. H α emission stars near Sa 101, CG 13 and CG 22

Reipurth, B., Pettersson, B. **267**, 439

High velocity outflow from η Carinae

Damineli Neto, A., Viotti, R., Baratta, G.B., de Araujo, F.X. **268**, 183

The spectral variability of DR Tauri

Guenther, E., Hessman, F.V. **268**, 192

Lyman α emission in spectra of Herbig Ae stars. An indication of accretion?

Blondel, P.F.C., Talavera, A., Tjin A Djie, H.R.E. **268**, 624

The new Be-type star HD 147196 in the ρ Ophiuchi dark cloud region

Thé, P.S., Pérez, M.R., de Winter, D., van den Ancker, M.E. **269**, 181

Stellar and circumstellar short period spectrovariability in the Be star 28 Cygni

Bossi, M., Guerrero, G., Zanin, F. **269**, 343

Radiative energy flux changes of Pleione in the far-UV through the Be-shell \rightarrow Be transition

Doazan, V., de la Fuente, A., Barylak, M., Cramer, N., Mauron, N. **269**, 415

Recent phase changes in X Persei: optical, infrared and X-ray behaviour

Roche, P., Coe, M.J., Fabregat, J., McHardy, I.M., Norton, A.J., Percy, J.R., Reglero, V., Reynolds, A., Unger, S.J. **270**, 122

Spectral analysis of DY Centauri, a hot R Coronae Borealis star with an unusually high hydrogen content

Jeffery, C.S., Heber, U. **270**, 167

Long-term changes in emission line and continuum spectrum of the Be star γ Cassiopeiae: H β V/R and IR continuum flux variations

Telting, J.H., Waters, L.B.F.M., Persi, P., Dunlop, S.R. **270**, 355

Anomalous dust in the environment of Herbig Ae/Be stars

Gorti, U., Bhatt, H.C. **270**, 426

Effects of spiral shocks on disk emission lines

Chakrabarti, S.K., Wiita, P.J. **271**, 216

Infrared emission lines in τ Scorpii: a pole-on Be star?

Waters, L.B.F.M., Marlborough, J.M., Geballe, T.R., Oosterbroek, T., Zaai, P. **272**, L9

T Chamaeleontis: a "weak-line" YY Orionis star?

Alcalá, J.M., Covino, E., Franchini, M., Krautter, J., Terranegra, L., Wichmann, R. **272**, 225

Water masers associated with Herbig Ae/Be stars

Palla, F., Prusti, T. **272**, 249

Infrared and optical studies of Be star/X-ray binaries

Coe, M.J., Everall, C., Fabregat, J., Gorrod, M.J., Norton, A.J., Reglero, V., Roche, P., Unger, S.J. **272**, 738 (**97**, 245)

Multi-wavelength observations of phase changes in X Persei

Roche, P., Coe, M.J., Everall, C., Fabregat, J., Norton, A.J., Reglero, V., Unger, S.J. **272**, 740 (**97**, 277)

The behavior of the O I line 7772 in Be and related stars

Jaschek, M., Jaschek, C., Andriat, Y. **272**, 752 (**97**, 781)

A catalogue of radii of Be star line emitting regions

Jaschek, C., Jaschek, M. **272**, 753 (**97**, 807)

Optical spectra of He 3-640 (A 1118-61) after the January 1992 X-ray outburst

Polcaro, V.F., Villada, M., Giovannelli, F. **273**, L49

Studies of symbiotic stars. VII. EG Andromedae

Munari, U. **273**, 425

Short-term line-profile variations and episodic mass loss in the Be star ζ Ophiuchi

Kambe, E., Ando, H., Hirata, R. **273**, 435

Unified NLTE model atmospheres including spherical extension and stellar winds. IV. Improved line transfer and wind contamination of H, He profiles

Sellmaier, F., Puls, J., Kudritzki, R.P., Gabler, A., Gabler, R., Voels, S.A. **273**, 533

Periodic spectral variations of θ^1 Orionis C

Stahl, O., Wolf, B., Gäng, T., Gummersbach, C.A., Kaufer, A., Kovacs, J., Mandel, H., Szeifert, T. **274**, L29

H α outbursts of μ Centauri: a clue to the Be phenomenon?

Hanuschik, R.W., Dachs, J., Baudzus, M., Thimm, G. **274**, 356

A forgotten episode of the η Carinae light curve in 1860-1865

Polcaro, V.F., Viotti, R. **274**, 807

New bright Be stars and the Be star frequency

Coté, J., van Kerkwijk, M.H. **274**, 870

The X-ray time variability and spectrum of γ Cassiopeiae (X 0053+604)

Parmar, A.N., Israel, G.L., Stella, L., White, N.E. **275**, 227

Multi-site continuous spectroscopy. I. Overview of the MUSICOS 1989 campaign organization

Catala, C., Foing, B.H., Baudrand, J., Cao, H., Char, S., Chatzichristou, H., Cuby, J.G., Czarny, J., Dreux, M., Felenbok, P., Floquet, M., Guérin, J., Huang, L., Hubert-Delplace, A.M., Hubert, H., Huovelin, J., Jankov, S., Jiang, S., Li, Q., Neff, J.E., Petrov, P., Savanov, I., Shcherbakov, A., Simon, T., Tuominen, I., Zhai, D. **275**, 245

MWC 560: spectral atlas for the region 3600 Å–4900 Å

Kolev, D., Tomov, T. **275**, 687 (**100**, 1)

A catalog of chromospherically active binary stars (second edition)

Strassmeier, K.G., Hall, D.S., Fekel, F.C., Scheck, M. **275**, 688 (**100**, 173)

Variable redshifted He I absorption lines in BM Andromedae

Guenther, E., Hessman, F.V. **276**, L25

On the radial velocity variations in Be stars

Savonije, G.J., Heemskerk, M.H.M. **276**, 409

AG Carinae. III. The 1990 hot phase of the star and the physical structure of the circumstellar environment

Viotti, R., Polcaro, V.F., Rossi, C. **276**, 432

The cloudy circumstellar dust shell of WW Vulpeculae revisited

Friedemann, C., Reimann, H.-G., Gürtler, J., Tóth, V. **277**, 184

Search for resolved H α nebulae around symbiotic stars and their formation mechanisms

Munari, U., Patat, F. **277**, 195

On the symbiotic star V 919 Sagittarii

Ivison, R.J., Munari, U., Marang, F. **277**, 510

Coming shell phase of the Be star 4 Herculis

Koubský, P., Horn, J., Harmanec, P., Hubert, A.-M., Hubert, H., Floquet, M. **277**, 521

On the nature of the 25-min periodicity from 4U 0142+614: A nearby, slowly spinning neutron star/Be system?

Mereghetti, S., Stella, L., De Nile, F. **278**, L23

Orbital elements of β Lyrae after the first 100 years of investigation

Harmanec, P., Scholz, G. **279**, 131

Spectral analysis of LSE 78: an extreme helium star similar to BD – 9° 4395 and DY Centauri

Jeffery, C.S. **279**, 188

A spectral atlas of the Herbig Ae star AB Aurigae. The visible domain from 391 to 874 nm

Böhm, T., Catala, C. **279**, 678 (**101**, 629)

The hot R Coronae Borealis star DY Centauri: nebular and photospheric lines

Rao, N.K., Giridhar, S., Lambert, D.L. **280**, 201

A new catalogue of H α emission-line stars and small nebulae in the Small Magellanic Cloud

Meyssonier, N., Azzopardi, M. **280**, 349 (**102**, 451)

R 40: the first luminous blue variable in the Small Magellanic Cloud

Szeifert, T., Stahl, O., Wolf, B., Zickgraf, F.-J., Bouchet, P., Klare, G. **280**, 508

Stars: evolution

IRAS 06562-0337: final mass-loss episodes before the formation of a planetary nebula?

García-Lario, P., Manchado, A., Sahu, K.C., Pottasch, S.R. **267**, L11

SAO 244567: a post-AGB star which has turned into a planetary nebula within the last 40 years

Parthasarathy, M., García-Lario, P., Pottasch, S.R., Manchado, A., Clavel, J., de Martino, D., Van de Steene, G.C.M., Sahu, K.C. **267**, L19

The effects of heating and accretion on the evolution of binary systems

Huang, R.Q., Yu, K.N. **267**, 392

On the formation rate and space density of close white dwarf main sequence star binaries

de Kool, M., Ritter, H. **267**, 397

Synthetic AGB evolution. I. A new model

Groenewegen, M.A.T., de Jong, T. **267**, 410

On the relative C, N, O abundances and the evolutionary status of yellow symbiotic stars

Schmid, H.M., Nussbaumer, H. **268**, 159

Standard solar models with CESAM code: neutrinos and helioseismology

Berthomieu, G., Provost, J., Morel, P., Lebreton, Y. **268**, 775

Stellar yields as a function of initial metallicity and mass limit for black hole formation

Maeder, A. **268**, 833

The new Be-type star HD 147196 in the ρ Ophiuchi dark cloud region

Thé, P.S., Pérez, M.R., de Winter, D., van den Ancker, M.E. **269**, 181

On the photometric homogeneity of Type Ia Supernovae

Bravo, E., Domínguez, I., Isern, J., Canal, R., Höflich, P., Labay, J. **269**, 187

Evolution of binaries with a low mass component immersed in a radiation field. I. Effect of irradiation by a millisecond pulsar companion

D'Antona, F., Ergma, E. **269**, 219

The mass loss history of high latitude supergiants

van der Veen, W.E.C.J., Trams, N.R., Waters, L.B.F.M. **269**, 231

A model for the 89 Herculis system

Waters, L.B.F.M., Waelkens, C., Mayor, M., Trams, N.R. **269**, 242

Old isolated neutron stars: fire burns and cauldron bubbles

Treves, A., Colpi, M., Lipunov, V.M. **269**, 319

Evidence for a yellow-supergiant phase of AG Carinae

Robberto, M., Ferrari, A., Nota, A., Paresce, F. **269**, 330

NJL 5: the eclipsing blue straggler in ω Centauri

Helt, B.E., Jørgensen, H.E., King, S., Larsen, A. **270**, 297

Horizontal branch evolution

Caloi, V., Mazzitelli, I. **271**, 139

A model for the intrinsic population of cataclysmic variables

Kolb, U. **271**, 149

The space density of classical novae in the galactic disk

Della Valle, M., Duerbeck, H.W. **271**, 175

On the infrared properties of S-stars with and without technetium

Groenewegen, M.A.T. **271**, 180

S stars: infrared colors, technetium, and binarity

Jorissen, A., Frayer, D.T., Johnson, H.R., Mayor, M., Smith, V.V. **271**, 463

COYOTES I: the photometric variability and rotational evolution of T Tauri stars

Bouvier, J., Cabrit, S., Fernández, M., Martín, E.L., Matthews, J.M. **272**, 176

A new method for analyzing horizontal branch morphology and mass loss

Jørgensen, U.G., Thejll, P. **272**, 255

A comparison between SPH and PPM: simulations of stellar collisions

Davies, M.B., Ruffert, M., Benz, W., Müller, E. **272**, 430

Lithium abundances in a flux-limited sample of galactic carbon stars

Abia, C., Boffin, H.M.J., Isern, J., Rebolo, R. **272**, 455

Evolutionary sequences for close binary systems in the mass range 3 to 8 M_{\odot}

De Greve, J.P. **272**, 749 (**97**, 527)

Galactic B-supergiants. II. Line strengths in the visible – Evidence for evolutionary effects?

Lennon, D.J., Dufton, P.L., Fitzsimmons, A. **272**, 750 (**97**, 559)

Evolutionary sequences of stellar models with semiconvection and convective overshoot. I. $Z=0.008$

Alongi, M., Bertelli, G., Bressan, A., Chiosi, C., Fagotto, F., Greggio, L., Nasi, E. **272**, 754 (97, 851)

An accretion induced collapse model for the eclipsing binary pulsar PSR 1718-19

Ergma, E. **273**, L38

Spectral analysis of extremely helium rich subdwarf O-stars

Dreizler, S. **273**, 212

Erratum: The nature of the F str A4077 stars. IV. Search for white dwarfs around barium dwarfs

North, P., Lanz, T. **273**, 720

On the nature of bright Blue Stragglers in the centre of M 3 and NGC 6397: analysis of *UBV* observations

Lauzeral, C., Aurière, M., Coupinot, G. **274**, 214

EK Cephei B: a test object for pre-ZAMS models of solar-type stars

Martín, E.L., Rebolo, R. **274**, 274

Colour evolution models and the distribution of LMC clusters in the integrated *UBV* plane

Girardi, L., Bica, E. **274**, 279

Rotational evolution of magnetic T Tauri stars with accretion discs

Cameron, A.C., Campbell, C.G. **274**, 309

Low temperature Rosseland mean opacities

Neuforge, C. **274**, 818

In search of real solar twins. III.

Friel, E., Cayrel de Strobel, G., Chmielewski, Y., Spite, M., Lèbre, A., Bentolila, C. **274**, 825

New bright Be stars and the Be star frequency

Coté, J., van Kerkwijk, M.H. **274**, 870

New dating of galactic open clusters

Meynet, G., Mermilliod, J.-C., Maeder, A. **274**, 1011 (98, 477)

Grids of stellar models. II. From 0.8 to $120 M_{\odot}$ at $Z=0.008$

Schaerer, D., Meynet, G., Maeder, A., Schaller, G. **274**, 1012 (98, 523)

Synthetic horizontal-branch models for Galactic globular clusters

Catelan, M. **274**, 1013 (98, 547)

SN 1993J: explosion of a massive cool supergiant with a small envelope mass?

Höflich, P., Langer, N., Duschinger, M. **275**, L29

Probing the AGB tip: luminous carbon stars in the galactic plane

Kastner, J.H., Forveille, T., Zuckerman, B., Omont, A. **275**, 163

An atlas of theoretical constraints for horizontal branch stars

Caputo, F., De Rinaldis, A., Manteiga, M., Pulone, L., Quarta, M.L. **276**, 41

Evolution of SN 1987 A in the ultraviolet

Sanz Fernández de Córdoba, L. **276**, 103

NLTE analysis of subluminescent O stars: the hot subdwarf in the binary system HD 128220

Rauch, T. **276**, 171

He2-90: a southern planetary nebula with low metal abundances

Costa, R.D.D., de Freitas Pacheco, J.A., Maciel, W.J. **276**, 184

Carbon stars with excess emission at 60 μm wavelength

Zuckerman, B. **276**, 367

Near-infrared and optical imaging of Q 2345+007: the largest gravitationally lensed QSO system?

Stanghellini, L., Corradi, R.L.M., Schwarz, H.E. **276**, 463

Numerical studies of convective penetration in plane parallel layers and the integral constraint

Roxburgh, I.W., Simmons, J. **277**, 93

Evolutionary sequences of stellar models with new radiative opacities. II. $Z=0.02$

Bressan, A., Fagotto, F., Bertelli, G., Chiosi, C. **277**, 364 (100, 647)

Absolute dimensions of eclipsing binaries. XX. GG Lupi: young metal-deficient B stars

Andersen, J., Clausen, J.V., Giménez, A. **277**, 439

An OH satellite line maser survey of cool IRAS sources and circumstellar envelope evolution

David, P., Le Squeren, A.M., Sivagnanam, P. **277**, 453

Comparison of remnant masses from close binary evolution with estimates derived from new single star models

De Greve, J.P. **277**, 475

Do molecular clouds contain accreting black holes?

Campana, S., Pardi, M.C. **277**, 477

MS 1603.6+2600: a unique low-luminosity X-ray binary?

Ergma, E., Vilhu, O. **277**, 483

The apsidal motion test of the internal stellar structure: comparison between theory and observations

Claret, A., Giménez, A. **277**, 487

Rotation, magnetic braking, and dynamos in cool giants and subgiants

Schrijver, C.J., Pols, O.R. **278**, 51

The period distribution of cataclysmic binaries evolving without magnetic braking

Kolb, U., de Kool, M. **279**, L5

Further ROSAT measurements of the period of 4U 1820-30

van der Klis, M., Hasinger, G., Verbunt, F., van Paradijs, J., Beloni, T., Lewin, W.H.G. **279**, L21

Two intermediate age open clusters: NGC 752 and NGC 3680

Carraro, G., Bertelli, G., Bressan, A., Chiosi, C. **279**, 337 (101, 381)

Grids of stellar models. III. From 0.8 to $120 M_{\odot}$ at $Z=0.004$

Charbonnel, C., Meynet, G., Maeder, A., Schaller, G., Schaerer, D. **279**, 338 (101, 415)

The correlations between planetary nebula morphology and central star evolution

Stanghellini, L., Corradi, R.L.M., Schwarz, H.E. **279**, 521

Erratum: The correlations between planetary nebula morphology and central star evolution

Stanghellini, L., Corradi, R.L.M., Schwarz, H.E. **279**, 674

Grids of stellar models. IV. From 0.8 to $120 M_{\odot}$ at $Z=0.040$

Schaerer, D., Charbonnel, C., Meynet, G., Maeder, A., Schaller, G. **280**, 346 (102, 339)

Colour magnitude diagram for the globular cluster M 13

Guarnieri, M.D., Bragaglia, A., Fusi Pecci, F. **280**, 348 (102, 397)

Stars: flare

A series of VLBI images of SS 433 during the outbursts in May/June 1987

Vermeulen, R.C., Schilizzi, R.T., Spencer, R.E., Romney, J.D., Fejes, I. **270**, 177

Daily spectra of radio flares from SS 433 in May/June 1987

Vermeulen, R.C., McAdam, W.B., Trushkin, S.A., Facondi, S.R., Fiedler, R.L., Hjellming, R.M., Johnston, K.J., Corbin, J. **270**, 189

Multicolour photometry of SS 433 during the monitoring campaign in May/June 1987

Aslanov, A.A., Cherepashchuk, A.M., Goranskij, V.P., Rakhimov, V.Y., Vermeulen, R.C. **270**, 200

Dynamics of the decay of confined stellar X-ray flares

Reale, F., Serio, S., Peres, G. **272**, 486

Possible stellar flare contributions to the BATSE gamma-ray burst database

Liang, E.P., Hui Li **273**, L53

- Dynamics of flares on late-type dMe stars. II. Mass motions and prominence oscillations during a flare on AD Leonis
Houdebine, E.R., Foing, B.H., Doyle, J.G., Rodonò, M. **274**, 245
- Tidally-induced warps in T Tauri disks. I. First-order perturbation theory
Terquem, C., Bertout, C. **274**, 291
- Dynamic spectra of radio sources from 4.5 to 5.0 GHz
Lecacheux, A., Rosolen, C., Davis, M., Bookbinder, J., Bastian, T.S., Dulk, G.A. **275**, 670
- ROSAT all-sky X-ray survey of the core region of the Pleiades cluster
Schmitt, J.H.M.M., Kahabka, P., Stauffer, J., Pters, A.J.M. **277**, 114
- Periodicities in the radio emission of UX Arietis?
Neidhöfer, J., Massi, M., Chiuderi-Drago, F. **278**, L51
- Dynamics of flares on late-type dMe stars. III. Kinetic energy and mass momentum budget of a flare on AD Leonis
Houdebine, E.R., Foing, B.H., Doyle, J.G., Rodonò, M. **278**, 109
- Low amplitude variability and transient periodicity in FF Andromedae and other active stars
Peres, G., Ventura, R., Pagano, I., Rodonò, M. **278**, 179
- Spot and flare activity of FK Comae Berenices: long-term photometry
Jetsu, L., Pelt, J., Tuominen, I. **278**, 449
- Multifrequency observations of AB Doradus. X-ray flaring and rotational modulation of a young star
Vilhu, O., Tsuru, T., Collier Cameron, A., Budding, E., Banks, T., Slee, B., Ehrenfreund, P., Foing, B.H. **278**, 467
- Rotational modulation and flares on the RS Canum Venaticorum binary π Pegasi in July/September 1990: spots and flares on π Pegasi
Doyle, J.G., Mathioudakis, M., Murphy, H.M., Avgoloupis, S., Mavridis, L.N., Seiradakis, J.H. **278**, 499
- ROSAT-detection of a giant X-ray flare on LkH α 92
Preibisch, T., Zinnecker, H., Schmitt, J.H.M.M. **279**, L33
- Investigation of micro-flaring and secular and quasi-periodic variations in dMe stars. VIII. Phase summation techniques in spectroscopy of Gl 735
Andrews, A.D., Stanek, K.Z. **279**, 197
- Flare activity and the origin of starspots
Mavridis, L.N., Avgoloupis, S. **280**, L5
- Far-infrared properties of late-type dwarfs. Infrared fluxes of K and M dwarfs
Mathioudakis, M., Doyle, J.G. **280**, 181
- Stars: formation**
- Indications for common origin and gravitational interaction in three binary LMC clusters
Kontizas, E., Kontizas, M., Michalitsianos, A. **267**, 59
- Bipolar structure of the Herbig-Haro object RNO 40
Bohigas, J., Persi, P., Tapia, M. **267**, 168
- Studies of narrow polar rings around E galaxies. II. The UV spectrum of AM 2020-504
Arnaboldi, M., Capaccioli, M., Barbaro, G., Buson, L., Longo, G. **268**, 103
- Searching for embedded clusters in the Cepheus-Cassiopeia region
Pásztor, L., Tóth, L.V., Balázs, L.G. **268**, 108
- Star formation history of the young association NGC 1948 at the edge of the supergiant shell LMC 4
Vallenari, A., Bomans, D.J., de Boer, K.S. **268**, 137
- High density structure of the L 1455 dark cloud
Juan, J., Bachiller, R., Kömpe, C., Martín-Pintado, J. **270**, 432
- VLA observations of the 8 GHz rotationally excited OH lines toward W3(OH)
Baudry, A., Menten, K.M., Walmsley, C.M., Wilson, T.L. **271**, 552
- Discovery of a cold and gravitationally unstable cloud fragment
Chini, R., Krügel, E., Haslam, C.G.T., Kreysa, E., Lemke, R., Reipurth, B., Sievers, A., Ward-Thompson, D. **272**, L5
- Star formation in L 1251: distance and members
Kun, M., Prusti, T. **272**, 235
- An extended correlation between the Balmer and soft X-ray emission from solar and stellar flares
Butler, C.J. **272**, 507
- Powering the starburst in the merging system Mkn 297
Sage, L.J., Loose, H.-H., Salzer, J.J. **273**, 6
- First detection of CS (10-9) in galactic star forming cores
Hauschildt, H., Güsten, R., Phillips, T.G., Schilke, P., Serabyn, E., Walker, C.K. **273**, L23
- Spatial distribution of stellar mass in the Large Magellanic Cloud star clusters
Subramaniam, A., Sagar, R., Bhatt, H.C. **273**, 100
- Formation of multiple protostellar systems
Klapp, J., Sigalotti, L.D.G., de Felice, F. **273**, 175
- Cold dust around Herbig-Haro energy sources: a 1300 μ m survey
Reipurth, B., Chini, R., Krügel, E., Kreysa, E., Sievers, A. **273**, 221
- A photometric study of wide visual double stars. IV. uvby photometry of wide visual double stars with G-type primaries
Sinachopoulos, D., van Dessel, E. **273**, 350 (**98**, 17)
- Ammonia clumps in the Orion and Cepheus clouds
Harju, J., Walmsley, C.M., Wouterloot, J.G.A. **273**, 351 (**98**, 51)
- The rate of supernovae. II. The selection effects and the frequencies per unit blue luminosity
Cappellaro, E., Turatto, M., Benetti, S., Tsvetkov, D.Y., Bartunov, O.S., Makarova, I.N. **273**, 383
- A CO and IRAS study of Cometary Globule 12
White, G.J. **274**, L33
- Formation of rings in weak bars: inelastic collisions and star formation
Palouš, J., Jungwiert, B., Kopecký, J. **274**, 189
- An unusual case of HCN hyperfine anomalies in S 76E
Zinchenko, I., Forström, V., Mattila, K. **275**, L9
- A second phase of star formation in the Serpens core
Casali, M.M., Eiroa, C., Duncan, W.D. **275**, 195
- Star formation in the Vela molecular clouds. II. The luminosity function of the Class I sources
Lorenzetti, D., Spinoglio, L., Liseau, R. **275**, 489
- Low-mass protostellar condensations in magnetized molecular clouds
Porro, I., Silvestro, G. **275**, 563
- A 1.3 mm survey for circumstellar dust around young Chamaeleon objects
Henning, T., Pfau, W., Zinnecker, H., Prusti, T. **276**, 129
- A multilevel study of ammonia in star forming regions. V. The Sgr B2 region
Hüttemeister, S., Wilson, T.L., Henkel, C., Mauersberger, R. **276**, 445
- The star-forming region around HH 24-26: a revised morphology
Gibb, A.G., Heaton, B.D. **276**, 511
- Abundance analysis of λ Bootis stars
Stürenburg, S. **277**, 139
- Visual binaries among pre-main sequence stars
Reipurth, B., Zinnecker, H. **278**, 81
- Large-scale structure of the R Coronae Australis cloud core
Harju, J., Haikala, L.K., Mattila, K., Mauersberger, R., Booth, R.S., Nordh, H.L. **278**, 569
- Infrared photometry of the young stellar objects V 346 Norma and Re 13
Prusti, T., Bontekoe, T.R., Chiar, J.E., Kester, D.J.M., Whittet, D.C.B. **279**, 163

- The influence of ice-coated grains on protostellar spectra
Preibisch, T., Ossenkopf, V., Yorke, H.W., Henning, T. **279**, 577
- Anatomy of the Sagittarius complex. III. Morphology and characteristics of the Sgr B2 giant molecular cloud
Gordon, M.A., Berkemann, U., Mezger, P.G., Zylka, R., Haslam, C.G.T., Kreyss, E., Sievers, A., Lemke, R. **280**, 208
- H₂O masers associated with dense molecular clouds and ultracompact H II regions. II. The extended sample
Palla, F., Cesaroni, R., Brand, J., Caselli, P., Comoretto, G., Felli, M. **280**, 599
- Stars: fundamental parameters** (classification, colors, luminosities, masses, radii, temperatures, etc.)
- Candidate OH/IR stars in the outer parts of our Galaxy
Blommaert, J.A.D.L., van der Veen, W.E.C.J., Habing, H.J. **267**, 39
- A new approach to the Malmquist bias
Luri, X., Mennessier, M.O., Torra, J., Figueras, F. **267**, 305
- A re-analysis of the period shifts in RR Lyrae stars
Fernley, J.A. **268**, 591
- Alpha Centauri revisited
Neuforge, C. **268**, 650
- On the determination of effective temperature and surface gravity of B, A, and F stars using Strömgren *uvby* photometry
Napiwotzki, R., Schönberner, D., Wenske, V. **268**, 653
- Photometry of ER Vulpeculae: photometric analysis with the WINK-10 code
İbanoğlu, C., Evren, S., Akan, M.C., Tunca, Z., Keskin, V. **269**, 310
- Effective temperature of Ap and Am stars from Geneva photometry
Hauck, B., North, P. **269**, 403
- Intrinsic colours of O, B and early A-type stars in the Geneva system
Cramer, N. **269**, 457
- NJL 5: the eclipsing blue straggler in ω Centauri
Helt, B.E., Jørgensen, H.E., King, S., Larsen, A. **270**, 297
- Empirical effective temperatures and angular diameters of stars cooler than the Sun
Di Benedetto, G.P. **270**, 315
- Balmer lines in cool dwarf stars. I. Basic influence of atmospheric models
Fuhrmann, K., Axer, M., Gehren, T. **271**, 451
- Linear analysis of RV Tauri stars: the resonance hypothesis
Tuchman, Y., Lèbre, A., Mennessier, M.O., Yarri, A. **271**, 501
- The atmospheric parameters of A and F stars. I. Comparison of various methods
Smalley, B., Dworetzky, M.M. **271**, 515
- Spatially resolved spectroscopy of WR ring nebulae. IV. The fundamental parameters of the central stars
Esteban, C., Smith, L.J., Vílchez, J.M., Clegg, R.E.S. **272**, 299
- Globular-cluster red giants as a probe of horizontal branch luminosities
Castellani, V., Degl'Innocenti, S., Luridiana, V. **272**, 442
- The Ga II lines in the red spectrum of Ap stars
Lanz, T., Artru, M.-C., Didelon, P., Mathys, G. **272**, 465
- HS 0209+0832: a DAB white dwarf with a temperature fitting into the DB gap
Jordan, S., Heber, U., Engels, D., Koester, D. **273**, L27
- Spectral analysis of extremely helium rich subdwarf O-stars
Dreizler, S. **273**, 212
- Erratum:* The calibration of Strömgren photometry for A, F and early G supergiants. III. The A and early F supergiants
Gray, R.O. **273**, 349
- Intrinsic IR colours of normal B-type stars using the Geneva visual and ESO IR photometric systems
Dougherty, S.M., Cramer, N., van Kerkwijk, M.H., Taylor, A.R., Waters, L.B.F.M. **273**, 503
- Hot subluminescent stars at high galactic latitudes. IV. Physical parameters and distances of 18 hot subdwarf stars and their spatial distribution
Theissen, A., Moehler, S., Heber, U., de Boer, K.S. **273**, 524
- Intrinsic UV colours of OB stars
Papaj, J., Krelowski, J., Wegner, W. **273**, 575
- Spectral analyses of the galactic Wolf-Rayet stars: a comprehensive study of the WN class
Hamann, W.-R., Koesterke, L., Wessolowski, U. **274**, 397
- Ultraviolet observations of the circumstellar envelope of α^1 Herculis in the line of sight of α^2 Herculis
Thiering, I., Reimers, D. **274**, 838
- The chemical evolution of the galactic disk. I. Analysis and results
Edvardsson, B., Andersen, J., Gustafsson, B., Lambert, D.L., Nissen, P.E., Tomkin, J. **275**, 101
- Orbital elements of 19 double stars (*Text in French*)
Baize, P. **275**, 353 (**99**, 205)
- Studies of early-type variable stars. IX. The orbit and physical parameters of V 1425 Cygni
Hill, G., Khamseh, B. **276**, 57
- On the mass of type-c RR Lyrae variables in globular clusters
Cacciari, C., Bruzzi, A. **276**, 87
- HNS: a hybrid neural system and its use for the classification of stars
Klusck, M., Napiwotzki, R. **276**, 309
- HC₉N from the envelopes of IRC+10216 and CRL2688
Truong-Bach, D., Graham, D., Nguyen-Q-Rieu **277**, 133
- A statistical study of the distribution of stars in the $\log T_{\text{eff}} - \log N_{\text{plane}}$
Achmad, L., de Jager, C., Nieuwenhuijzen, H. **277**, 361 (**100**, 465)
- Absolute dimensions of eclipsing binaries. XX. GG Lupi: young metal-deficient B stars
Andersen, J., Clausen, J.V., Giménez, A. **277**, 439
- HDE 269828: a reddened massive star cluster
Heydari-Malayeri, M., Grebel, E.K., Melnick, J., Jorda, L. **278**, 11
- Parallactic variation of gravitational lensing and measurement of stellar mass
Hosokawa, M., Ohnishi, K., Fukushima, T., Takeuti, M. **278**, L27
- The nature of the high latitude B-type binary, SU Piscium
Dufton, P.L., Holmgren, D., Conlon, E.S., Keenan, F.P. **278**, 68
- Estimates of the accuracy of stellar physical parameters from intercomparison of catalogues
Malyuto, V. **278**, 73
- Analysis of the DA white dwarf HZ 43 A and its companion star
Napiwotzki, R., Barstow, M.A., Fleming, T., Holweber, H., Jordan, S., Werner, K. **278**, 478
- Orbital elements of β Lyrae after the first 100 years of investigation
Harmanec, P., Scholz, G. **279**, 131
- Study of the Population II Cepheid AU Pegasi
Vinkó, J., Szabados, L., Szatmáry, K. **279**, 410
- NGC 2371: a high excitation planetary nebula with an O VI nucleus
Kaler, J.B., Stanghellini, L., Shaw, R.A. **279**, 529
- An atlas of Balmer lines (H δ and H γ)
Cananzi, K., Augarde, R., Lequeux, J. **279**, 678 (**101**, 599)
- Strömgren four-colour *uvby* photometry of G5-type HD stars brighter than $m_V = 8.6$
Olsen, E.H. **280**, 345 (**102**, 89)

uvby β and *JHKLM* photometry of peculiar stars in the galactic cluster NGC 2264

Neri, L.J., Chavarría-K., C., de Lara, E. **280**, 345 (102, 201)

A search for magnetic fields in Am stars

Lanz, T., Mathys, G. **280**, 486

The 1.5–1.7 μ m spectrum of cool stars: line identifications, indices for spectral classification and the stellar content of the Seyfert galaxy NGC 1068

Origlia, L., Moorwood, A.F.M., Oliva, E. **280**, 536

Stars: giant

Radial pulsation in variable stars with mass loss

Pijpers, F.P. **267**, 471

IRAS colours of Li-rich giants

Gregorio-Hetem, J., Castilho, B.V., Barbuy, B. **268**, L25

The ellipsoidal shape of the M giant in T Coronae Borealis

Yudin, B., Munari, U. **270**, 165

Statistical analysis of a sample of spectroscopic binaries containing late-type giants

Boffin, H.M.J., Cerf, N., Paulus, G. **271**, 125

Globular-cluster red giants as a probe of horizontal branch luminosities

Castellani, V., Degl'Innocenti, S., Luridiana, V. **272**, 442

A catalog of K giants at the south galactic pole: broadband and DDO photometry and radial velocities

Flynn, C., Freeman, K.C. **272**, 753 (97, 835)

High resolution Na D and H α line profiles of stars in the globular clusters M 22 and ω Centauri

Bates, B., Kemp, S.N., Montgomery, A.S. **272**, 755 (97, 937)

The Mg I 8806 Å line in the spectra of late-type giant stars

Ruck, M.J., Smith, G. **277**, 165

Stars: horizontal-branch

Horizontal branch evolution

Caloi, V., Mazzitelli, I. **271**, 139

A new method for analyzing horizontal branch morphology and mass loss

Jørgensen, U.G., Thejll, P. **272**, 255

Globular-cluster red giants as a probe of horizontal branch luminosities

Castellani, V., Degl'Innocenti, S., Luridiana, V. **272**, 442

An atlas of theoretical constraints for horizontal branch stars

Caputo, F., De Rinaldis, A., Manteiga, M., Pulone, L., Quarta, M.L. **276**, 41

Stars: imaging

Surface features of the lower atmosphere of HD 82558 (=LQ Hydrae)

Strassmeier, K.G., Rice, J.B., Wehlau, W.H., Hill, G.M., Matthews, J.M. **268**, 671

Fourier analysis of spotted star light curves as a tool to detect stellar differential rotation

Lanza, A.F., Rodonò, M., Zappalà, R.A. **269**, 351

A statistical assessment of zero-polarization catalogues

Clarke, D., Naghizadeh-Khouei, J., Simmons, J.F.L., Stewart, B.G. **269**, 617

Doppler imaging with a CLEAN-like approach. I. A newly developed algorithm, simulations, and tests

Kürster, M. **274**, 851

Chromospheric rotational modulation in solar-like stars. II. Multi-component modelling and rotational period of α Centauri B from Ca II H spectroscopic variability

Char, S., Foing, B.H., Beckman, J., García López, R.J., Rebolo, R. **276**, 78

Simulated imaging of the upper atmosphere of active stars

Donati, J.-F., Catala, C. **277**, 123

Improving the eclipse mapping method

Baptista, R., Steiner, J.E. **277**, 331

Zeeman-Doppler imaging of active stars. III. Instrumental and technical considerations

Semel, M., Donati, J.-F., Rees, D.E. **278**, 231

Surface imaging of eclipsing binary stars. I. Techniques

Vincent, A., Piskunov, N.E., Tuominen, I. **278**, 523

Stars: individual: . . .

A 0538-66

Two outbursts from A 0538-66 in the ROSAT All-Sky Survey

Mavromatakis, F., Haberl, F. **274**, 304

AB Aur

Multi-site continuous spectroscopy. I. Overview of the MUSICOS 1989 campaign organization

Catala, C., Foing, B.H., Baudrand, J., Cao, H., Char, S., Chatzichristou, H., Cuby, J.G., Czarny, J., Dreux, M., Felenbok, P., Floquet, M., Guérin, J., Huang, L., Hubert-Delplace, A.M., Hubert, H., Huovelin, J., Jankov, S., Jiang, S., Li, Q., Neff, J.E., Petrov, P., Savanov, I., Shcherbakov, A., Simon, T., Tuominen, I., Zhai, D. **275**, 245

Circular polarization and variability in the spectra of Herbig Ae/Be stars. I. The Fe II 5018 Å and He I 5876 Å lines of AB Aurigae

Catala, C., Böhm, T., Donati, J.-F., Semel, M. **278**, 187

A spectral atlas of the Herbig Ae star AB Aurigae. The visible domain from 391 to 874 nm

Böhm, T., Catala, C. **279**, 678 (101, 629)

AB Dor

Multifrequency observations of AB Doradus. X-ray flaring and rotational modulation of a young star

Vilhu, O., Tsuru, T., Collier Cameron, A., Budding, E., Banks, T., Slee, B., Ehrenfreund, P., Foing, B.H. **278**, 467

AC Her

Photometry of yellow semiregular variables: AC Herculis, R Sagittae and V Vulpeculae

Zsoldos, E. **268**, 149

AC 211/X 2127+119

The 17.1-h optical and X-ray orbital period of AC 211/X 2127 + 119 in M 15

Ilovaisky, S.A., Aurière, M., Koch-Miramond, L., Chevalier, C., Cordoni, J.-P., Crowe, R.A. **270**, 139

AD CMi

Photoelectric photometry of field variables. I

Burchi, R., De Santis, R., Di Paolantonio, A., Piersimoni, A.M. **272**, 753 (97, 827)

AD Leo

Dynamics of flares on late-type dMe stars. II. Mass motions and prominence oscillations during a flare on AD Leonis

Houdebine, E.R., Foing, B.H., Doyle, J.G., Rodonò, M. **274**, 245

Dynamic spectra of radio sources from 4.5 to 5.0 GHz

Lecacheux, A., Rosolen, C., Davis, M., Bookbinder, J., Bastian, T.S., Dulk, G.A. **275**, 670

Dynamics of flares on late-type dMe stars. III. Kinetic energy and mass momentum budget of a flare on AD Leonis

Houdebine, E.R., Foing, B.H., Doyle, J.G., Rodonò, M. **278**, 109

AE Aqr

Short optical bursts and acceleration to TeV energies in AE Aquarii
de Jager, O.C., Meintjes, P.J. **268**, L1

AG Car

Evidence for a yellow-supergiant phase of AG Carinae

Robberto, M., Ferrari, A., Nota, A., Paresce, F. **269**, 330

Walraven photometry of stars near the luminous blue variable AG Carinae

Hoekzema, N.M., Lamers, H.J.G.L.M., van Genderen, A.M. **274**, 1012 (**98**, 505)

AG Carinae. III. The 1990 hot phase of the star and the physical structure of the circumstellar environment

Viotti, R., Polcaro, V.F., Rossi, C. **276**, 432

AM Her

A model for TeV gamma-ray emission from AM Herculis

Kaul, C.L., Kaul, R.K., Bhat, C.L. **272**, 501

AU Mic

Rotational modulation and flares on RS Canum Venaticorum and BY Draconis stars. XVII. UV spectroscopy and optical photometry of AU Microscopii in 1986

Quin, D.A., Doyle, J.G., Butler, C.J., Byrne, P.B., Swank, J.H. **272**, 477

Extreme ultra violet plasma diagnostic: a test using EUVE calibration data

Landini, M., Monsignori Fossi, B.C. **275**, L17

AU Peg

Study of the Population II Cepheid AU Pegasi

Vinkó, J., Szabados, L., Szatmáry, K. **279**, 410

BD+40°4124

Water masers associated with Herbig Ae/Be stars

Palla, F., Prusti, T. **272**, 249

BM And

Variable redshifted He I absorption lines in BM Andromedae

Guenther, E., Hessman, F.V. **276**, L25

BU Cnc

Nonradial pulsation of the δ Scuti star BU Cancri in the Praesepe cluster

Breger, M., Stich, J., Garrido, R., Martin, B., Jiang Shi-yang, Li Zhi-ping, Hube, D.P., Ostermann, W., Paparo, M., Scheck, M. **271**, 482

BW Vul

On the period history of the β Cephei star BW Vulpeculae

Sterken, C. **270**, 259

Photoelectric photometry of the β Cephei star BW Vulpeculae (1988–1991)

Sterken, C., Pigulski, A., Liu Zongli **273**, 355 (**98**, 383)

The light-time effect as the cause of period changes in β Cephei stars.

III. BW Vulpeculae

Pigulski, A. **274**, 269

A new tool to study wave propagation: the Van Hoof effect

Mathias, P., Gillet, D. **278**, 511

BX And

The light curve and period variation of BX Andromedae

Demircan, O., Akalin, A., Derman, E. **274**, 1013 (**98**, 583)

CAL 83

Low-mass X-ray binary models for the supersoft X-ray sources CAL 83, CAL 87 and RX J0527.8–6954 in the Large Magellanic Cloud

Kylafis, N.D., Xilouris, E.M. **278**, L43

CAL 87

Low-mass X-ray binary models for the supersoft X-ray sources CAL 83, CAL 87 and RX J0527.8–6954 in the Large Magellanic Cloud

Kylafis, N.D., Xilouris, E.M. **278**, L43

CD -43°14300

Three stars at high galactic latitudes with peculiar helium abundances

Dufton, P.L., Conlon, E.S., Keenan, F.P., McCausland, R.J.H., Holmgren, D.E. **269**, 201

CRL 2688

HC₃N from the envelopes of IRC+10216 and CRL2688

Truong-Bach, Graham, D., Nguyen-Q-Rieu **277**, 133

Cyg X-1

SIGMA observations of bright X-ray binaries

Laurent, P., Claret, A., Cordier, B., Lebrun, F., Denis, M., Bouchet, L., Lei, F., Barret, D., Churazov, E., Gilfanov, M., Sunyaev, R., Diachkov, A., Khavenson, N., Kremnev, R., Sukhanov, K., Kuleshova, N. **272**, 737 (**97**, 225)

Observations of black hole candidates with GRANAT

Grebenev, S., Sunyaev, R., Pavlinsky, M., Churazov, E., Gilfanov, M., Dyachkov, A., Khavenson, N., Sukhanov, K., Laurent, P., Ballet, J., Claret, A., Cordier, B., Jourdain, E., Niel, M., Pelaez, F., Schmitz-Fraysse, M.C. **272**, 740 (**97**, 281)

Cyg X-3

A model of the Cygnus X-3 system in the gamma-rays region

Moskalenko, I.V., Karakula, S., Tkaczyk, W. **272**, 739 (**97**, 269)

Spectroscopic and photometric variability of Cygnus X-3

van Kerkwijk, M.H. **276**, L9

DF Tau

Accretion disks around T Tauri stars. IV. The disk–star boundary layer

Bertout, C., Bouvier, J., Duschl, W.J., Tscharnuter, W.M. **275**, 236

DH Leo

On the cause of luminosity-colour variation in the active binary system DH Leonis

Aslan, Z. **273**, L47

DR Tau

The spectral variability of DR Tauri

Guenther, E., Hessman, F.V. **268**, 192

DY Cen

Spectral analysis of DY Centauri, a hot R Coronae Borealis star with an unusually high hydrogen content

Jeffery, C.S., Heber, U. **270**, 167

The hot R Coronae Borealis star DY Centauri: nebular and photospheric lines

Rao, N.K., Giridhar, S., Lambert, D.L. **280**, 201

EG And

Studies of symbiotic stars. VII. EG Andromedae

Munari, U. **273**, 425

Proof for a wind from the hot component in the symbiotic system EG Andromedae

Vogel, M. **274**, L21

EK Cep

EK Cephei B: a test object for pre-ZAMS models of solar-type stars

Martín, E.L., Rebolo, R. **274**, 274

ER Vul

Photometry of ER Vulpeculae: photometric analysis with the WINK-10 code

İbanoğlu, C., Evren, S., Akan, M.C., Tunca, Z., Keskin, V. **269**, 310

EXO 1846-031

The discovery and properties of the ultra-soft X-ray transient EXO 1846-031

Parmar, A.N., Angelini, L., Roche, P., White, N.E. **279**, 179

EXS 1737.9-2952

EXITE observation of the Galactic center: a new transient?

Grindlay, J.E., Covault, C.E., Manandhar, R.P. **272**, 733 (**97**, 155)

Feige 56

Three stars at high galactic latitudes with peculiar helium abundances

Dufton, P.L., Conlon, E.S., Keenan, F.P., McCausland, R.J.H., Holmgren, D.E. **269**, 201

FF And

Low amplitude variability and transient periodicity in FF Andromedae and other active stars

Peres, G., Ventura, R., Pagano, I., Rodonò, M. **278**, 179

FK Com

Spot and flare activity of FK Comae Berenices: long-term photometry

Jetsu, L., Pelt, J., Tuominen, I. **278**, 449

G 66-30 (=Wolf 550)

The lithium-poor stars: additional observations

Spite, M., Molaro, P., François, P., Spite, F. **271**, L1

GG Lup

Absolute dimensions of eclipsing binaries. XX. GG Lupi: young metal-deficient B stars

Andersen, J., Clausen, J.V., Giménez, A. **277**, 439

Four-colour photometry of eclipsing binaries. XXXV. Light curves of GG Lupi: Young metal-deficient B stars

Clausen, J.V., García, J.M., Giménez, A., Helt, B.E., Vaz, L.P.R. **279**, 677 (**101**, 563)

GI 105B

Activity in late-type stars. VIII. The nature of the dM(e) or "zero" H α stars

Byrne, P.B. **272**, 495

Activity in late-type stars. IX. The weakest chromosphere M dwarf yet discovered: GI 105B

Byrne, P.B. **278**, 520

GI 447

Activity in late-type stars. VIII. The nature of the dM(e) or "zero" H α stars

Byrne, P.B. **272**, 495

GI 735

Investigation of micro-flaring and secular and quasi-periodic variations in dMe stars. VIII. Phase summation techniques in spectroscopy of GI 735

Andrews, A.D., Stanek, K.Z. **279**, 197

GI 793

Activity in late-type stars. VIII. The nature of the dM(e) or "zero" H α stars

Byrne, P.B. **272**, 495

GP And

Photoelectric photometry of field variables. I

Burchi, R., De Santis, R., Di Paolantonio, A., Piersimoni, A.M. **272**, 753 (**97**, 827)

Simultaneous *uvby* photometry of GP Andromedae

Rodríguez, E., Rolland, A., López de Coca, P. **279**, 338 (**101**, 421)

GRO J0422+32

Broad-band X-ray observations of the GRO J0422+32 X-ray nova by the "Mir-Kvant" observatory

Sunyaev, R.A., Kaniovsky, A.S., Borozdin, K.N., Efremov, V.V., Aref'ev, V.A., Melioransky, A.S., Skinner, G.K., Pan, H.C., Kendziorra, E., Maisack, M., Döbereiner, S., Pietsch, W. **280**, L1

GRO J0422+32

A ROSAT observation of the black hole candidate GRO J0422+32

Pietsch, W., Haberl, F., Gehrels, N., Petre, R. **273**, L11

GRS 1758-258

Hard X-ray observation of GRS 1758-258

Bazzano, A., Cocchi, M., La Padula, C., Sood, R., Ubertini, P. **272**, 734 (**97**, 169)

Two-year monitoring of persistent point sources in the Galactic center region at soft γ -ray energies with SIGMA

Cordier, B., Goldwurm, A., Leray, J.P., Paul, J., Bouchet, L., Mandrou, P., Niel, M., Roques, J.P., Churazov, E., Gilfanov, M., Sunyaev, R., Dyachkov, A., Khavenson, N., Kremnev, R., Sukhanov, K., Kuleshova, N. **272**, 734 (**97**, 177)

VLA observations of the hard X-ray sources 1E 1740.7-2942 and GRS 1758-258

Mirabel, I.F., Rodríguez, L.F., Cordier, B., Paul, J., Lebrun, F. **272**, 735 (**97**, 193)

GS 0834-430

ROSAT and optical observations of two X-ray transients: MX 0836-42 and GS 0834-430

Belloni, T., Hasinger, G., Pietsch, W., Mereghetti, S., Bignami, G.F., Caraveo, P. **271**, 487

GS 2000+25

Optical studies of transient low-mass X-ray binaries. IV. A 10-hour distortion wave in the quiescent light curve of GS 2000+25

Chevalier, C., Illovaisky, S.A. **269**, 301

"Glitches" in soft X-ray transients: Echoes of the main burst?

Augusteijn, T., Kuulkers, E., Shaham, J. **279**, L13

GS 2023+388

Observations of X-ray transient source GS 2023+388 with the TTM coded mask telescope

Pan, H.C., in't Zand, J.J.M., Skinner, G.K., Borozdin, K.N., Gilfanov, M.R., Sunyaev, R. **272**, 740 (97, 273)

GX Peg

Seismology of δ Scuti stars – GX Pegasi

Goupil, M.J., Michel, E., Lebreton, Y., Baglin, A. **268**, 546

GX 3+1

Observations of the Galactic centre with the TTM instrument

Nottingham, M.R., Skinner, G.K., Willmore, A.P., Borozdin, K.N., Churazov, E., Sunyaev, R. **272**, 734 (97, 165)

GX 5-1

Observations of the Galactic centre with the TTM instrument

Nottingham, M.R., Skinner, G.K., Willmore, A.P., Borozdin, K.N., Churazov, E., Sunyaev, R. **272**, 734 (97, 165)

Hard X-ray observation of GRS 1758-258

Bazzano, A., Cocchi, M., La Padula, C., Sood, R., Ubertini, P. **272**, 734 (97, 169)

GX 174

Two-year monitoring of persistent point sources in the Galactic center region at soft γ -ray energies with SIGMA

Cordier, B., Goldwurm, A., Leray, J.P., Paul, J., Bouchet, L., Mandrou, P., Niel, M., Roques, J.P., Churazov, E., Gilfanov, M., Sunyaev, R., Dyachkov, A., Khavenson, N., Kremnev, R., Sukhanov, K., Kuleshova, N. **272**, 734 (97, 177)

GX 339-4

SIGMA observations of bright X-ray binaries

Laurent, P., Claret, A., Cordier, B., Lebrun, F., Denis, M., Bouchet, L., Lei, F., Barret, D., Churazov, E., Gilfanov, M., Sunyaev, R., Diachkov, A., Khavenson, N., Kremnev, R., Sukhanov, K., Kuleshova, N. **272**, 737 (97, 225)

Observations of black hole candidates with GRANAT

Grebenev, S., Sunyaev, R., Pavlinsky, M., Churazov, E., Gilfanov, M., Dyachkov, A., Khavenson, N., Sukhanov, K., Laurent, P., Ballet, J., Claret, A., Cordier, B., Jourdain, E., Niel, M., Pelaez, F., Schmitz-Fraysse, M.C. **272**, 740 (97, 281)

GX 340+0

The radio counterpart of the Z source GX 340+0

Penninx, W., Zwarthod, G.A.A., van Paradijs, J., van der Klis, M., Lewin, W.H.G., Dotani, T. **267**, 92

HD 4817

The K-type supergiant HR 237 (HD 4817)

Griffin, R.F. **268**, 615

HD 18878

Pulsational behaviours of the δ Scuti stars HD 18878 and HD 19279

Mantegazza, L., Poretti, E. **274**, 811

HD 19279

Pulsational behaviours of the δ Scuti stars HD 18878 and HD 19279

Mantegazza, L., Poretti, E. **274**, 811

HD 37017

Periodic radio emission from the helium-strong stars HD 37017 and σ Ori E

Leone, F., Umana, G. **268**, 667

The circumstellar matter of the magnetic helium-strong star HD 37017

Leone, F. **273**, 509

HD 37808

The chemically peculiar star HD 37808

Leone, F., Catalano, F.A., Manfrè, M. **279**, 167

HD 50896

Ultraviolet spectroscopic variability of the WN5 star HD 50896: timescales and linear physical dimensions of the perturbations

St-Louis, N., Howarth, I.D., Willis, A.J., Stickland, D.J., Smith, L.J., Conti, P.S., Garmany, C.D. **267**, 447

HD 73576

Nonradial pulsation of the δ Scuti star BU Cancr in the Praesepe cluster

Breger, M., Stich, J., Garrido, R., Martin, B., Jiang Shi-yang, Li Zhi-ping, Hube, D.P., Ostermann, W., Paparo, M., Scheck, M. **271**, 482

HD 77581 (Vela X-1)

Observations of stellar winds in high-mass X-ray binaries: evidence for a non-monotonic velocity structure

Kaper, L., Hammerschlag-Hensberge, G., van Loon J.T. **279**, 485

HD 93044

The period analysis of HD 93044 and its amplitude variations

Liu Zong-Li **274**, 220

HD 93521

UES and IUE observations of the O9.5 V star HD 93521: non-radial pulsations, wind, and distance

Howarth, I.D., Reid, A.H.N. **279**, 148

HD 128220B

NLTE analysis of subluminescent O stars: the hot subdwarf in the binary system HD 128220

Rauch, T. **276**, 171

HD 140283

Barium isotopes in the very metal-poor star HD 140283

Magain, P., Zhao, G. **268**, L27

HD 147196

The new Be-type star HD 147196 in the ρ Ophiuchi dark cloud region

Thé, P.S., Pérez, M.R., de Winter, D., van den Ancker, M.E. **269**, 181

HD 148199

The light variations of some southern CP2 stars
Catalano, F.A., Leone, F. **276**, 328 (**100**, 319)

HD 153919 (4U 1700-37)

Observations of stellar winds in high-mass X-ray binaries: evidence for a non-monotonic velocity structure
Kaper, L., Hammerschlag-Hensberge, G., van Loon J.T. **279**, 485

HD 165908

IACUB: a new echelle spectrograph for use at the Observatorio del Roque de los Muchachos
McKeith, C.D., García López, R.J., Rebolo, R., Barnett, E.W., Beckman, J.E., Martín, E.L., Trapero, J. **273**, 331

HD 176386

The accreting circumstellar gas envelope of HD 176386 a young star in the R Coronae Austrinae star formation region
Grady, C.A., Pérez, M.R., Thé, P.S. **274**, 847

HD 200775

A chemical study of the photodissociation region NGC 7023
Fuente, A., Martín-Pintado, J., Cernicharo, J., Bachiller, R. **276**, 473

HD 212097

IACUB: a new echelle spectrograph for use at the Observatorio del Roque de los Muchachos
McKeith, C.D., García López, R.J., Rebolo, R., Barnett, E.W., Beckman, J.E., Martín, E.L., Trapero, J. **273**, 331

HD 82558 (LQ Hya)

Surface features of the lower atmosphere of HD 82558 (=LQ Hydrae)
Strassmeier, K.G., Rice, J.B., Wehlau, W.H., Hill, G.M., Matthews, J.M. **268**, 671

He 3-640

Optical spectra of He 3-640 (A 1118-61) after the January 1992 X-ray outburst
Polcaro, V.F., Villada, M., Giovannelli, F. **273**, L49

Her X-1 (HZ Her)

Period variations and phase residuals in freely precessing stars
Bisnovatyi-Kogan, G.S., Kahabka, P. **267**, L43
 Hercules X-1 during the ROSAT All-Sky Survey
Mavromatakis, F. **273**, 147

HR 1099

Zeeman-Doppler imaging of active stars. III. Instrumental and technical considerations
Semel, M., Donati, J.-F., Rees, D.E. **278**, 231

HR 4072

uvby photometry of the suspected variable stars 53 Tauri, 68 Tauri, HR 4072, and HR 6096
Adelman, S.J. **269**, 411

HR 4684

FM Comae (= HR 4684) revisited
Paparo, M., Pena, J., Peniche, R., İbanoğlu, C., Tunca, Z., Evren, S. **268**, 123

HR 5668

Four-colour photometry of eclipsing binaries. XXXV. Light curves of GG Lupi: Young metal-deficient B stars
Clausen, J.V., Garcia, J.M., Giménez, A., Helt, B.E., Vaz, L.P.R. **279**, 677 (**101**, 563)

HR 5696

Four-colour photometry of eclipsing binaries. XXXV. Light curves of GG Lupi: Young metal-deficient B stars
Clausen, J.V., Garcia, J.M., Giménez, A., Helt, B.E., Vaz, L.P.R. **279**, 677 (**101**, 563)

HR 5724

Four-colour photometry of eclipsing binaries. XXXV. Light curves of GG Lupi: Young metal-deficient B stars
Clausen, J.V., Garcia, J.M., Giménez, A., Helt, B.E., Vaz, L.P.R. **279**, 677 (**101**, 563)

HR 5999

UV spectral variability in the Herbig Ae star HR 5999. XI. The accretion interpretation
Pérez, M.R., Grady, C.A., Thé, P.S. **274**, 381

HR 6096

uvby photometry of the suspected variable stars 53 Tauri, 68 Tauri, HR 4072, and HR 6096
Adelman, S.J. **269**, 411

HR 6684

Three known and twenty-two new variable stars of early spectral type
Jerzykiewicz, M. **272**, 748 (**97**, 421)

HR 8854

Three known and twenty-two new variable stars of early spectral type
Jerzykiewicz, M. **272**, 748 (**97**, 421)

HS 0209+0832

HS 0209+0832: a DAB white dwarf with a temperature fitting into the DB gap
Jordan, S., Heber, U., Engels, D., Koester, D. **273**, L27

HZ 43

Analysis of the DA white dwarf HZ 43 A and its companion star
Napiwotzki, R., Barstow, M.A., Fleming, T., Holweber, H., Jordan, S., Werner, K. **278**, 478

He 2-147

Search for resolved H α nebulae around symbiotic stars and their formation mechanisms
Munari, U., Patat, F. **277**, 195

II Peg

An extended correlation between the Balmer and soft X-ray emission from solar and stellar flares
Butler, C.J. **272**, 507
BV photometry and H α spectroscopy of the RS Canum Venaticorum binary II Pegasi
Mohin, S., Raveendran, A.V. **277**, 155
 Zeeman-Doppler imaging of active stars. III. Instrumental and technical considerations
Semel, M., Donati, J.-F., Rees, D.E. **278**, 231

Rotational modulation and flares on the RS Canum Venaticorum binary π Pegasi in July/September 1990: spots and flares on π Pegasi
Doyle, J.G., Mathioudakis, M., Murphy, H.M., Avgoloupis, S., Mavridis, L.N., Seiradakis, J.H. **278**, 499

IP Peg

Period and disk radius changes in the dwarf nova IP Pegasi
Wolf, S., Mantel, K.H., Horne, K., Barwig, H., Schoembs, R., Baernbantner, O. **273**, 160

IRAS 07134+1005

SiS₂ in circumstellar shells
Goebel, J.H. **278**, 226

IRAS 15194-5115

A molecular radio line survey of the carbon star IRAS 15194-5115
Nyman, L.-Å., Olofsson, H., Johansson, L.E.B., Booth, R.S., Carlström, U., Wolstencroft, R. **269**, 377
 Dust shell modelling of the carbon star IRAS 15194-5115
Lopez, B., Perrier, C., Mékarnia, D., Lefèvre, J., Gay, J. **270**, 462

IRAS 17150-3224

IRAS 17150-3224: a young, optically bipolar, proto-planetary nebula
Hu, J.Y., Slijkhuis, S., Nguyen-Q-Rieu, de Jong, T. **273**, 185

IRC +10216

Einstein A-coefficients for rotational transitions in the ν_3 vibrationally excited state of SiC₂
Chandra, S., Sahu, A. **272**, 700
 HC₃N from the envelopes of IRC+10216 and CRL2688
Truong-Bach, Graham, D., Nguyen-Q-Rieu **277**, 133
 MgNC and the carbon-chain radicals in IRC+10216
Guélin, M., Lucas, R., Cernicharo, J. **280**, L19

IRC -20197

Optical and infrared observations of two oxygen-rich Miras: dust shell modelling as a function of phase
Le Sidaner, P., Le Bertre, T. **278**, 167

IRC -30023

Optical and infrared observations of two oxygen-rich Miras: dust shell modelling as a function of phase
Le Sidaner, P., Le Bertre, T. **278**, 167

KS 1731-260

SIGMA observations of two X-ray transients: KS 1731-260 and TrA X-1
Barret, D., Mandrou, P., Roques, J.P., Denis, M., Lebrun, F., Claret, A., Goldwurm, A., Laurent, P., Churazov, E., Gilfanov, M., Sunyaev, R., Bogomolov, A., Khavenson, N., Kuleshova, N., Tserenin, I., Sukhanov, K. **272**, 738 (**97**, 241)

KT Per

A spectroscopic study of the Z Camelopardalis type dwarf nova KT Persei
Ratering, C., Bruch, A., Diaz, M. **268**, 694

KW 207

Nonradial pulsation of the δ Scuti star BU Cancri in the Praesepe cluster
Breger, M., Stich, J., Garrido, R., Martin, B., Jiang Shi-yang, Li Zhi-ping, Hube, D.P., Ostermann, W., Paparo, M., Scheck, M. **271**, 482

L 1551 IRS 5

The molecular outflow very near L 1551 IRS 5
Fridlund, C.V.M., Knee, L.B.G. **268**, 245

LQ Hya

A decade of photometry of LQ Hydrae
Jetsu, L. **276**, 345

LSE 78

Spectral analysis of LSE 78: an extreme helium star similar to BD - 9° 4395 and DY Centauri
Jeffery, C.S. **279**, 188

LSI +61°235

On the nature of the 25-min periodicity from 4U 0142+614: A nearby, slowly spinning neutron star/Be system?
Mereghetti, S., Stella, L., De Nile, F. **278**, L23

LSI +61°303

Radio emission from RS CVn stars, Algol, and LSI+61°303
Estalella, R., Paredes, J.M., Rius, A., Martí, J., Peracaula, M. **268**, 178
 High resolution radio map of the X-ray binary LSI +61°303
Massi, M., Paredes, J.M., Estalella, R., Felli, M. **269**, 249

Lk H α 233

Near-infrared speckle interferometry of Lk H α 233
Leinert, C., Haas, M., Weitzel, N. **271**, 535

Lk H α 234

Water masers associated with Herbig Ae/Be stars
Palla, F., Prusti, T. **272**, 249

LkH α 92

ROSAT-detection of a giant X-ray flare on LkH α 92
Preibisch, T., Zinnecker, H., Schmitt, J.H.M.M. **279**, L33

MR Ser

Cyclotron and Zeeman spectroscopy of MR Serpentis in low and high states of accretion
Schwöpe, A.D., Beuermann, K., Jordan, S., Thomas, H.-C. **278**, 487

MS 1603.6+2600

MS 1603.6+2600: a unique low-luminosity X-ray binary?
Ergma, E., Vilhu, O. **277**, 483

MWC 560

MWC 560: spectral atlas for the region 3600 Å–4900 Å
Kolev, D., Tomov, T. **275**, 687 (**100**, 1)

MX 0836-42

ROSAT and optical observations of two X-ray transients: MX 0836-42 and GS 0834-430

Belloni, T., Hasinger, G., Pietsch, W., Mereghetti, S., Bignami, G.F., Caraveo, P. **271**, 487

NGC 1948 F6:4 (LMC)

Analysis of NGC 1948 F6:4, a star in a young association of the LMC

Spite, F., Barbuy, B., Spite, M. **272**, 116

NJL 5 (ω Cen)

NJL 5: the eclipsing blue straggler in ω Centauri

Helt, B.E., Jørgensen, H.E., King, S., Larsen, A. **270**, 297

Nova Cyg 1992

Nova Cygni 1992 in the post-maximum period

Annuk, K., Kolka, I., Leedjärv, L. **269**, L5

Spectroscopic and photometric behaviour of Nova Cygni 1992 in the first nine months following outburst

Chochol, D., Hric, L., Urban, Z., Komžík, R., Grygar, J., Pa-poušek, J. **277**, 103

Nova GQ Mus 1983

The optical spectrum of Nova GQ Muscae 1983 from 1984 to 1988

Péquignot, D., Petitjean, P., Boisson, C., Krautter, J. **271**, 219

Nova Muscae 1991

Overview of two-year observations with SIGMA on board GRANAT

Mandrou, P., Jourdain, E., Bassani, L., Vedrenne, G., Paul, J., Leray, J.-P., Lebrun, F., Ballet, J., Churazov, E., Gilfanov, M., Sunyaev, R., Bogomolov, A., Khavenson, N., Kuleshova, N., Tserenin, I., Sukhanov, K. **272**, 724 (**97**, 1)

Observations of black hole candidates with GRANAT

Grebenev, S., Sunyaev, R., Pavlinsky, M., Churazov, E., Gilfanov, M., Dyachkov, A., Khavenson, N., Sukhanov, K., Laurent, P., Ballet, J., Claret, A., Cordier, B., Jourdain, E., Niel, M., Pelaez, F., Schmitz-Fraysse, M.C. **272**, 740 (**97**, 281)

Nova Muscae 1991, an exciting dwarf X-ray transient

Lund, N. **272**, 741 (**97**, 289)

SIGMA observations of the X-ray nova in Musca

Goldwurm, A., Ballet, J., Laurent, P., Paul, J., Jourdain, E., Bouchet, L., Mandrou, P., Roques, J.P., Churazov, E., Gilfanov, M., Sunyaev, R., Dyachkov, A., Khavenson, N., Kremnev, R., Sukhanov, K., Kuleshova, N. **272**, 741 (**97**, 293)

The spectra of Nova Muscae 1991 between 3 keV and 1 MeV observed with GRANAT

Gilfanov, M., Churazov, E., Sunyaev, R., Grebenev, S., Pavlinsky, M., Dyachkov, A., Kovtunen, V., Kremnev, R., Goldwurm, A., Ballet, J., Laurent, P., Paul, J., Jourdain, E., Schmitz-Fraysse, M.C., Roques, J.P., Mandrou, P. **272**, 741 (**97**, 303)

Ultraviolet spectroscopy of Nova Muscae 1991

Shrader, C.R., Gonzalez-Riestra, R., Cheng, F.H., Horne, K., Panagia, N., Gilmozzi, R., Lund, N. **272**, 742 (**97**, 309)

IUE observations of X-ray Nova Muscae 1991 during outburst

Shrader, C.R., Gonzalez-Riestra, R. **276**, 373

Nova Per 1992

Discovery of the optical counterpart of the soft X-ray transient GRO J0422+32

Castro-Tirado, A.J., Pavlenko, E.P., Shlyapnikov, A.A., Brandt, S., Lund, N., Ortiz, J.L. **276**, L37

P Cyg

A possible cause for the variations in the "underlying" absorption-line profiles in the spectrum of P Cygni

Markova, N. **273**, 555

Long-term spectroscopic monitoring of P Cygni-type stars. I. Spectral atlas of P Cygni

Stahl, O., Mandel, H., Wolf, B., Gäng, T., Kaufer, A., Kneer, R., Szeifert, T., Zhao, F. **274**, 1016 (**99**, 165)

PG 0824+289

PG 0824+289: a dwarf carbon star with a visible white dwarf companion

Heber, U., Bade, N., Jordan, S., Voges, W. **267**, L31

PG 1159

Stark broadening of C IV lines

Schöning, T. **267**, 300

PG 1704+222

The nature of two blue stars in the galactic halo

Conlon, E.S., Theissen, A., Moehler, S. **269**, L1

PG 1708+142

The nature of two blue stars in the galactic halo

Conlon, E.S., Theissen, A., Moehler, S. **269**, L1

PHL 382

Three stars at high galactic latitudes with peculiar helium abundances

Dufton, P.L., Conlon, E.S., Keenan, F.P., McCausland, R.J.H., Holmgren, D.E. **269**, 201

Pleione (=28 Tau)

Radiative energy flux changes of Pleione in the far-UV through the Be-shell \rightarrow Be transition

Doazan, V., de la Fuente, A., Barylak, M., Cramer, N., Mauron, N. **269**, 415

QV Nor

The orbit and pulse period of X 1538-522 from Ginga observations

Corbet, R.H.D., Woo, J.W., Nagase, F. **276**, 52

R Lep

A catalogue of Li abundances and equivalent widths in a sample of galactic C-stars

Boffin, H.M.J., Abia, C., Isern, J., Rebolo, R. **280**, 347 (**102**, 361)

R Sge

Photometry of yellow semiregular variables: AC Herculis, R Sagittae and V Vulpeculae

Zsoldos, E. **268**, 149

R 40 (SMC)

R 40: the first luminous blue variable in the Small Magellanic Cloud

Szeifert, T., Stahl, O., Wolf, B., Zickgraf, F.-J., Bouchet, P., Klare, G. **280**, 508

RS Oph

The ROSAT detection of RS Ophiuchi at quiescence
Orio, M. **274**, L41

RU Cam

On the irregular light variation of RU Camelopardalis
Kolláth, Z., Szeidl, B. **277**, 62

RV Tau

Linear analysis of RV Tauri stars: the resonance hypothesis
Tuchman, Y., Lèbre, A., Mennessier, M.O., Yarri, A. **271**, 501

RW Cnc

Photoelectric photometry of field variables. I
Burchi, R., De Santis, R., Di Paolantonio, A., Piersimoni, A.M. **272**, 753 (97, 827)

RX J0146.9+6121

On the nature of the 25-min periodicity from 4U 0142+614: A nearby, slowly spinning neutron star/Be system?
Mereghetti, S., Stella, L., De Nile, F. **278**, L23

RX J0513.9-6951

Discovery of a variable super soft X-ray source in the Large Magellanic Cloud during the ROSAT All-Sky Survey
Schaeidt, S., Hasinger, G., Trümper, J. **270**, L9
Optical/UV counterpart of the supersoft transient X-ray source RX J0513.9-6951 in the Large Magellanic Cloud
Pakull, M.W., Motch, C., Bianchi, L., Thomas, H.-C., Guibert, J., Beaulieu, J.P., Grison, P., Schaeidt, S. **278**, L39

RX J0527.8-6954

Low-mass X-ray binary models for the supersoft X-ray sources CAL 83, CAL 87 and RX J0527.8-6954 in the Large Magellanic Cloud
Kylafis, N.D., Xilouris, E.M. **278**, L43

RX J0534.6-7056 (LMC)

Detection of two new supersoft X-ray sources in the Large Magellanic Cloud
Orio, M., Ögelman, H. **273**, L56

RX J0537.7-7034 (LMC)

Detection of two new supersoft X-ray sources in the Large Magellanic Cloud
Orio, M., Ögelman, H. **273**, L56

RX J2107.9-0518

Discovery of the bright eclipsing polar RX J2107.9-0518
Schwöpe, A.D., Thomas, H.-C., Beuermann, K. **271**, L25

RX J2117.1+3412

A new pulsating PG 1159 white dwarf RXJ 2117.1+3412
Vauclair, G., Belmonte, J.A., Pfeiffer, B., Chevreton, M., Dolez, N., Motch, C., Werner, K., Pakull, M.W. **267**, L35
A new PG 1159 star discovered in the ROSAT XRT all sky survey: NLTE analysis of X-ray and optical spectra
Motch, C., Werner, K., Pakull, M.W. **268**, 561

RY Lup

The circumstellar gleam from the T Tauri star RY Lupi
Gahm, G.F., Liseau, R., Gullbring, E., Hartstein, D. **279**, 477

Re 13

Infrared photometry of the young stellar objects V 346 Normae and Re 13
Prusti, T., Bontekoe, T.R., Chiar, J.E., Kester, D.J.M., Whittet, D.C.B. **279**, 163

S Sct

Modelling of the CO emission around the carbon star S Scuti
Bergman, P., Carlström, U., Olofsson, H. **268**, 685
Detailed modelling of the shell around S Scuti
Eriksson, K., Stenholm, L. **271**, 508

S Sge

Atmospheric motions in classical Cepheid stars. II. The pre-resonance Cepheids: η Aquilae, S Sagittae
Breitfellner, M.G., Gillet, D. **277**, 541

Sirius

Compositional differences among the A-type stars. I. Six narrow-lined stars
Hill, G.M., Landstreet, J.D. **276**, 142

SMC X-1

Spectral and temporal properties of the X-ray pulsar SMC X-1 at hard X-rays
Kunz, M., Gruber, D.E., Kendziorra, E., Kretschmar, P., Maisack, M., Mony, B., Staubert, R., Döbereiner, S., Englhauser, J., Pietsch, W., Reppin, C., Trümper, J., Efremov, V.V., Kaniovsky, A.S., Kuznetsov, A., Sunyaev, R. **268**, 116

SS Ari

A period study of SS Arietis and its implications for the multiplicity of the system
Demircan, O., Selam, S.O. **267**, 107
New BV light curves and photometric solutions for the contact binary SS Arietis
Qingyao Liu, Yulan Yang, Chenghong Gu, Bi Wang **279**, 336 (101, 253)

SS 433

A series of VLBI images of SS 433 during the outbursts in May/June 1987
Vermeulen, R.C., Schilizzi, R.T., Spencer, R.E., Romney, J.D., Fejes, I. **270**, 177
Daily spectra of radio flares from SS 433 in May/June 1987
Vermeulen, R.C., McAdam, W.B., Trushkin, S.A., Facondi, S.R., Fiedler, R.L., Hjellming, R.M., Johnston, K.J., Corbin, J. **270**, 189
Multicolour photometry of SS 433 during the monitoring campaign in May/June 1987
Aslanov, A.A., Cherepashchuk, A.M., Goranskij, V.P., Rakhimov, V.Y., Vermeulen, R.C. **270**, 200
Monitoring of very rapid changes in the optical spectrum of SS433 in May/June 1987
Vermeulen, R.C., Murdin, P.G., van den Heuvel, E.P.J., Fabrika, S.N., Wagner, R.M., Margon, B., Hutchings, J.B., Schilizzi, R.T., van Kerkwijk, M.H., van den Hoek, L.B., Ott, E., Angebault, L.P., Miley, G.K., D'Odorico, S., Borisov, N. **270**, 204

ST Per

- Long-term behaviour of the orbital period of Algol-type binary ST Persei
Demircan, O., Selam, S.O. **274**, 1012 (**98**, 513)

SU Psc

- The nature of the high latitude B-type binary, SU Piscium
Dufton, P.L., Holmgren, D., Conlon, E.S., Keenan, F.P. **278**, 68

T Cha

- T Chamaeleontis: a "weak-line" YY Orionis star?
Alcalá, J.M., Covino, E., Franchini, M., Krautter, J., Terranegra, L., Wichmann, R. **272**, 225

T CrB

- The ellipsoidal shape of the M giant in T Coronae Borealis
Yudin, B., Munari, U. **270**, 165

TrA X-1

- SIGMA observations of two X-ray transients: KS 1731-260 and TrA X-1
Barret, D., Mandrou, P., Roques, J.P., Denis, M., Lebrun, F., Claret, A., Goldwurm, A., Laurent, P., Churazov, E., Gilfanov, M., Sunyaev, R., Bogomolov, A., Khavenson, N., Kuleshova, N., Tserenin, I., Sukhanov, K. **272**, 738 (**97**, 241)

TT Lyn

- Photoelectric photometry of field variables. I
Burchi, R., De Santis, R., Di Paolantonio, A., Piersimoni, A.M. **272**, 753 (**97**, 827)

TW Boo

- Photoelectric photometry of field variables. I
Burchi, R., De Santis, R., Di Paolantonio, A., Piersimoni, A.M. **272**, 753 (**97**, 827)

TY CrA

- High resolution spectroscopic observations of TY Coronae Austrinae
Lagrange, A.M., Corporon, P., Bouvier, J. **274**, 785

U Cep

- UV and X-ray emission in the interacting binary U Cephei
Giménez, A., Guinan, E.F., González-Riestra, R. **272**, 739 (**97**, 261)

UU Her

- The double-mode semiregular variable UU Herculis: 1990-1992 photometry
Zsoldos, E., Fernie, J.D., Arellano Ferro, A., Seager, S. **275**, 484

UU Sge

- Imaging and spectroscopy of Abell 63 (UU Sge)
Walton, N.A., Walsh, J.R., Pottasch, S.R. **275**, 256

UX Ari

- Periodicities in the radio emission of UX Arietis?
Neidhöfer, J., Massi, M., Chiuderi-Drago, F. **278**, L51
 Zeeman-Doppler imaging of active stars. III. Instrumental and technical considerations
Semel, M., Donati, J.-F., Rees, D.E. **278**, 231

V Crt

- Four-colour photometric study of the short-period eclipsing binary V Crateris
Qingyao Liu **279**, 679 (**101**, 49)

V Vul

- Photometry of yellow semiregular variables: AC Herculis, R Sagittae and V Vulpeculae
Zsoldos, E. **268**, 149

V 346 Nor

- Infrared photometry of the young stellar objects V 346 Normae and Re 13
Prusti, T., Bontekoe, T.R., Chiar, J.E., Kester, D.J.M., Whittet, D.C.B. **279**, 163

V 367 Cyg

- In quest of the secondary in the optical spectrum of the interacting binary V 367 Cygni
Schneider, H., Pavlovski, K., Planinić, M., Ivezić, Ž. **277**, 480

V 485 Cen

- A 59^m photometric period in the dwarf nova V 485 Centauri
Augusteijn, T., van Kerwijk, M.H., van Paradijs, J. **267**, L55

V 487 Cas (HD 6474)

- V 487 Cassiopeiae (HD 6474): a UU Herculis variable in the galactic plane?
Zsoldos, E. **280**, 177

V 645 Cyg

- Water masers associated with Herbig Ae/Be stars
Palla, F., Prusti, T. **272**, 249

V 711 Tau

- BV photometry and H α spectroscopy of the RS Canum Venaticorum binary V711 Tauri
Mohin, S., Raveendran, A.V. **276**, 329 (**100**, 331)

V 834 Cen

- A spectroscopic ephemeris of the secondary star in the AM Herculis binary V 834 Centauri
Schwope, A.D., Thomas, H.-C., Beuermann, K., Reinsch, K. **267**, 103

V 854 Cen

- UBVR polarimetry of the peculiar R CrB star V 854 Centauri
Rao, N.K., Raveendran, A.V. **274**, 330

V 919 Sgr

- On the symbiotic star V 919 Sagittarii
Iverson, R.J., Munari, U., Marang, F. **277**, 510

V 1229 Aql

- Study of nova shells. I. V 1229 Aquilae (1970): nebular expansion parallax and luminosity
Della Valle, M., Duerbeck, H.W. **275**, 239

V 1425 Cyg

Studies of early-type variable stars. IX. The orbit and physical parameters of V 1425 Cygni

Hill, G., Khamseh, B. **276**, 57

V 2051 Oph

On the ephemeris of the cataclysmic variable V 2051 Ophiuchi: evidence of orbital period cyclic changes

Echevarría, J., Alvarez, M. **275**, 187

VW Hyi

The nature of the X-ray spectrum of VW Hydri

van Teeseling, A., Verbunt, F., Heise, J. **270**, 159

Erratum: The nature of the X-ray spectrum of VW Hydri

van Teeseling, A., Verbunt, F., Heise, J. **273**, 721

VZ Cnc

Photoelectric photometry of field variables. II

Piersimoni, A.M., Di Paolantonio, A., Burchi, R., De Santis, R. **279**, 681 (**101**, 195)

W Ser

New optical spectrographic observations of W Serpentis

Barbá, R. **269**, 390

WD 2309+105

Extreme ultra violet plasma diagnostic: a test using EUVE calibration data

Landini, M., Monsignor Fossi, B.C. **275**, L17

Wolf 424

The substellar masses of Wolf 424. II

Heintz, W.D. **277**, 452

WW Vul

The cloudy circumstellar dust shell of WW Vulpeculae revisited

Friedemann, C., Reimann, H.-G., Gürtler, J., Tóth, V. **277**, 184

X Ari

Photoelectric photometry of field variables. I

Burchi, R., De Santis, R., Di Paolantonio, A., Piersimoni, A.M. **272**, 753 (**97**, 827)

X Cyg

Atmospheric motions in classical Cepheid stars. III. A very large amplitude star: X Cygni

Breitfellner, M.G., Gillet, D. **277**, 553

X Per

Recent phase changes in X Persei: optical, infrared and X-ray behaviour

Roche, P., Coe, M.J., Fabregat, J., McHardy, I.M., Norton, A.J., Percy, J.R., Reglero, V., Reynolds, A., Unger, S.J. **270**, 122

Multi-wavelength observations of phase changes in X Persei

Roche, P., Coe, M.J., Everall, C., Fabregat, J., Norton, A.J., Reglero, V., Unger, S.J. **272**, 740 (**97**, 277)

X 1538-522

The orbit and pulse period of X 1538-522 from Ginga observations

Corbet, R.H.D., Woo, J.W., Nagase, F. **276**, 52

XX Oph

The reddening and variability of XX Ophiuchi

Evans, A., Albinson, J.S., Barrett, P., Davies, J.K., Goldsmith, M.J., Hutchinson, M.G., Maddison, R.C. **267**, 161

Z CMa

Sub-diffraction-limited infrared speckle observations of Z Canis Majoris, a 0.10 variable binary star

Haas, M., Christou, J.C., Zinnecker, H., Ridgway, S.T., Leinert, C. **269**, 282

Detection of a 400 AU disk-like structure surrounding the young stellar object Z CMa

Malbet, F., Rigaut, F., Bertout, C., Léna, P. **271**, L9

 α Cen

Alpha Centauri revisited

Neuforge, C. **268**, 650

Dynamics of the decay of confined stellar X-ray flares

Reale, F., Serio, S., Peres, G. **272**, 486

 α Cen B

Chromospheric rotational modulation in solar-like stars. I. A method for multi-component modelling of Ca II H and K spectroscopic variability

Char, S., Foing, B.H. **276**, 69

Chromospheric rotational modulation in solar-like stars. II. Multi-component modelling and rotational period of α Centauri B from Ca II H spectroscopic variability

Char, S., Foing, B.H., Beckman, J., García López, R.J., Rebolo, R. **276**, 78

 α Her

Ultraviolet observations of the circumstellar envelope of α^1 Herculis in the line of sight of α^2 Herculis

Thiering, I., Reimers, D. **274**, 838

 α Lup

A new tool to study wave propagation: the Van Hoof effect

Mathias, P., Gillet, D. **278**, 511

 α Ori

Empirical effective temperatures and angular diameters of stars cooler than the Sun

Di Benedetto, G.P. **270**, 315

 β Lyr

Orbital elements of β Lyrae after the first 100 years of investigation

Harmanec, P., Scholz, G. **279**, 131

 β Per

Studies of early-type variable stars. X. Reticon-based radial velocities of β Persei

Hill, G., Perry, C.L., Khamseh, B. **279**, 677 (**101**, 579)

 β Pic

The β Pictoris protoplanetary system. XIV. Simultaneous observations of the Ca II H and K lines: evidence for diffuse and broad absorption features

Ferlet, R., Lagrange-Henri, A.-M., Beust, H., Vitry, R., Zimmerman, J.-P., Martin, M., Char, S., Belmahdi, M., Clavier, J.-P., Coupiac, P., Foing, B.H., Sevre, F., Vidal-Madjar, A. **267**, 137

The β Pictoris circumstellar disk. XV. Highly ionized species near β Pictoris

Deleuil, M., Gry, C., Lagrange-Henri, A.-M., Vidal-Madjar, A., Beust, H., Ferlet, R., Moos, H.W., Livengood, T.A., Ziskin, D., Feldman, P.D., McGrath, M.A. **267**, 187

Observation of the central part of the β Pictoris disk with an anti-blooming CCD

Lecavelier des Etangs, A., Perrin, G., Ferlet, R., Vidal-Madjar, A., Colas, F., Buil, C., Sèvre, F., Arlot, J.-E., Beust, H., Lagrange-Henri, A.-M., Lecacheux, J., Deleuil, M., Gry, C. **274**, 877

γ Cas

Long-term changes in emission line and continuum spectrum of the Be star γ Cassiopeiae: H β V/R and IR continuum flux variations

Telting, J.H., Waters, L.B.F.M., Persi, P., Dunlop, S.R. **270**, 355

The X-ray time variability and spectrum of γ Cassiopeiae (X 0053+604)

Parmar, A.N., Israel, G.L., Stella, L., White, N.E. **275**, 227

γ Tau

The Mg I 8806 Å line in the spectra of late-type giant stars

Ruck, M.J., Smith, G. **277**, 165

δ Cep

Atmospheric motions in classical Cepheid stars. I. The star of reference: δ Cephei

Breitfellner, M.G., Gillet, D. **277**, 524

δ Del

A spectroscopic search for nonradial pulsations in the δ Scuti stars δ Delphini and ϵ Cephei

Baade, D., Bardelli, S., Beaulieu, J.P., Vogel, S. **269**, 195

δ Ori A

A ROSAT observation of δ Orionis A

Haberl, F., White, N.E. **280**, 519

ϵ Car

A forgotten episode of the η Carinae light curve in 1860–1865

Polcaro, V.F., Viotti, R. **274**, 807

ϵ Cep

A spectroscopic search for nonradial pulsations in the δ Scuti stars δ Delphini and ϵ Cephei

Baade, D., Bardelli, S., Beaulieu, J.P., Vogel, S. **269**, 195

ϵ CrA

The spectroscopic orbit of ϵ Coronae Austrinae, an evolved W Ursae Majoris system

Goecking, K.-D., Duerbeck, H.W. **278**, 463

ζ Oph

Line profile variations of rotating, pulsating stars

Aerts, C., Waelkens, C. **273**, 135

Short-term line-profile variations and episodic mass loss in the Be star ζ Ophiuchi

Kambe, E., Ando, H., Hirata, R. **273**, 435

ζ Pup

Infrared observations of atomic hydrogen lines in ζ Puppis

Käufel, H.U. **272**, 452

The 0.1–2.5 keV X-ray spectrum of the O4f star ζ Puppis

Hillier, D.J., Kudritzki, R.P., Pauldrach, A.W., Baade, D., Cassinelli, J.P., Puls, J., Schmitt, J.H.M.M. **276**, 117

η Car

The outflowing dust around η Carinae

Meaburn, J., Walsh, J.R., Wolstencroft, R.D. **268**, 283

η Aql

Atmospheric motions in classical Cepheid stars. II. The pre-resonance Cepheids: η Aquilae, S Sagittae

Breitfellner, M.G., Gillet, D. **277**, 541

η Car

High velocity outflow from η Carinae

Damineli Neto, A., Viotti, R., Baratta, G.B., de Araujo, F.X. **268**, 183

An episodic jet from η Carinae

Meaburn, J., Gehring, G., Walsh, J.R., Palmer, J.W., López, J.A., Bryce, M., Raga, A.C. **276**, L21

θ^1 Ori

Periodic spectral variations of θ^1 Orionis C

Stahl, O., Wolf, B., Gäng, T., Gummersbach, C.A., Kaufer, A., Kovacs, J., Mandel, H., Szeifert, T. **274**, L29

μ Cen

Line profile variations of rotating, pulsating stars

Aerts, C., Waelkens, C. **273**, 135

H α outbursts of μ Centauri: a clue to the Be phenomenon?

Hanuschik, R.W., Dachs, J., Baudzus, M., Thimm, G. **274**, 356

μ Leo

The Mg I 8806 Å line in the spectra of late-type giant stars

Ruck, M.J., Smith, G. **277**, 165

μ Peg

The Mg I 8806 Å line in the spectra of late-type giant stars

Ruck, M.J., Smith, G. **277**, 165

σ Peg

Compositional differences among the A-type stars. I. Six narrow-lined stars

Hill, G.M., Landstreet, J.D. **276**, 142

ρ Oph A

Interstellar lithium and the $^7\text{Li}/^6\text{Li}$ ratio toward ρ Ophiuchi

Lemoine, M., Ferlet, R., Vidal-Madjar, A., Emerich, C., Bertin, P. **269**, 469

σ Ori E

Periodic radio emission from the helium-strong stars HD 37017 and σ Ori E

Leone, F., Umana, G. **268**, 667

τ Sco

Infrared emission lines in τ Scorpii: a pole-on Be star?

Waters, L.B.F.M., Marlborough, J.M., Geballe, T.R., Oosterbroek, T., Zaai, P. **272**, L9

1E 1740.7-2942

SIGMA soft γ -ray observations of 1E 1740.7-2942 in the spring of 1992: discovery of a sub-luminous state of emission and precise γ -ray position measurement

Cordier, B., Paul, J., Goldwurm, A., Laurent, P., Bouchet, L., Jourdain, E., Roques, J.P., Mandrou, P., Gilfanov, M., Churazov, E., Sunyaev, R., Khavenson, N., Dyachkov, A., Novikov, B., Kremnev, R., Kovtunenkov, V. **272**, 277

EXITE observation of the Galactic center: a new transient?

Grindlay, J.E., Covault, C.E., Manandhar, R.P. **272**, 733 (**97**, 155)

Two-year monitoring of persistent point sources in the Galactic center region at soft γ -ray energies with SIGMA

Cordier, B., Goldwurm, A., Leray, J.P., Paul, J., Bouchet, L., Mandrou, P., Niel, M., Roques, J.P., Churazov, E., Gilfanov, M., Sunyaev, R., Dyachkov, A., Khavenson, N., Kremnev, R., Sukhanov, K., Kuleshova, N. **272**, 734 (**97**, 177)

VLA observations of the hard X-ray sources 1E 1740.7-2942 and GRS 1758-258

Mirabel, I.F., Rodríguez, L.F., Cordier, B., Paul, J., Lebrun, F. **272**, 735 (**97**, 193)

The soft γ -ray source 1E 1740.7-2942 revisited: SIGMA observation of a new transient activity beyond 200 keV

Cordier, B., Paul, J., Ballet, J., Goldwurm, A., Bouchet, L., Roques, J.P., Mandrou, P., Vedrenne, G., Churazov, E., Gilfanov, M., Sunyaev, R., Novikov, B., Chulkov, I., Kuleshova, N., Tserenin, I., Shekhet, A. **275**, L1

2S 0921-630

Radio observations of the low-mass X-ray binary 2S 0921-630

Zwarthoed, G.A.A., Stewart, R., Penninx, W., van Paradijs, J., van der Klis, M., Roy, A.L., Amy, S.W. **267**, 101

4 Her

Coming shell phase of the Be star 4 Herculis

Koubský, P., Horn, J., Harmanec, P., Hubert, A.-M., Hubert, H., Floquet, M. **277**, 521

4U 0142+614

On the nature of the 25-min periodicity from 4U 0142+614: A nearby, slowly spinning neutron star/Be system?

Mereghetti, S., Stella, L., De Nile, F. **278**, L23

4U 0352+30

The X Persei system in the ROSAT All-Sky survey

Mavromatakis, F. **276**, 353

4U 0614+09

Two transient X-ray sources observed with the WATCH experiment

Brandt, S., Castro-Tirado, A.J., Lund, N., Dremín, V., Lapshov, I., Sunyaev, R. **272**, 739 (**97**, 257)

4U 1700-377

SIGMA observations of bright X-ray binaries

Laurent, P., Claret, A., Cordier, B., Lebrun, F., Denis, M., Bouchet, L., Lei, F., Barret, D., Churazov, E., Gilfanov, M., Sunyaev, R., Dyachkov, A., Khavenson, N., Kremnev, R., Sukhanov, K., Kuleshova, N. **272**, 737 (**97**, 225)

4U 1820-30

Further ROSAT measurements of the period of 4U 1820-30

van der Klis, M., Hasinger, G., Verbunt, F., van Paradijs, J., Belloni, T., Lewin, W.H.G. **279**, L21

4U 1907+09

Hard X-ray spectrum of 4U 1907+09

Chitnis, V.R., Rao, A.R., Agrawal, P.C., Manchanda, R.K. **268**, 609

16 Cyg

In search of real solar twins. III.

Friel, E., Cayrel de Strobel, G., Chmielewski, Y., Spite, M., Lèbre, A., Bentolila, C. **274**, 825

22 Vul

Optical spectra of ζ Aurigae binary systems. V. The 1988 eclipse of 22 Vulpeculae

Griffin, R.E.M., Hünsch, M., Marshall, K.P., Griffin, R.F., Schröder, K.-P. **274**, 225

28 And

Simultaneous *uvby* photometry of 28 Andromedae

Rodríguez, E., Rolland, A., López de Coca, P., Garrido, R., Mendoza, E.E. **273**, 473

28 Cyg

Stellar and circumstellar short period spectrovariability in the Be star 28 Cygni

Bossi, M., Guerrero, G., Zanin, F. **269**, 343

42 Per

Three known and twenty-two new variable stars of early spectral type

Jerzykiewicz, M. **272**, 748 (**97**, 421)

44 Tau

Pulsational behaviour of 44 Tauri

Akan, M.C. **278**, 150

53 Tau

uvby photometry of the suspected variable stars 53 Tauri, 68 Tauri, HR 4072, and HR 6096

Adelman, S.J. **269**, 411

56 Ari

Spectrophotometric behavior of 56 Arietis

Śtepień, K., Czechowski, W. **268**, 187

68 Tau

uvby photometry of the suspected variable stars 53 Tauri, 68 Tauri, HR 4072, and HR 6096

Adelman, S.J. **269**, 411

89 Her

A model for the 89 Herculis system

Waters, L.B.F.M., Waelkens, C., Mayor, M., Trams, N.R. **269**, 242

2CG 195+4

Search for TeV gamma-rays from Geminga

Akerlof, C.W., Breslin, A.C., Cawley, M.F., Chantell, M., Fegan, D.J., Fennell, S., Gaidos, J.A., Hagan, J., Hillas, A.M., Kerrick, A.D., Lamb, R.C., Lawrence, M.A., Lewis, D.A., Meyer, D.J., Mohanty, G., O'Flaherty, K.S., Punch, M., Reynolds, P.T., Rovero, A.C., Schubnell, M.S., Sembroski, G., Weekes, T.C., West, M., Whittaker, T., Wilson, C. **274**, L17

 α^2 CrB

Zeeman-Doppler imaging of active stars. III. Instrumental and technical considerations

Semel, M., Donati, J.-F., Rees, D.E. **278**, 231

Stars: interiors

On the photometric homogeneity of Type Ia Supernovae

Bravo, E., Domínguez, I., Isern, J., Canal, R., Höflich, P., Labay, J. **269**, 187

A finite-difference adaptive grid method for computing the equilibria of rotating self-gravitating barotropic gases

Galkin, S.A., Denissov, A.A., Drozdov, V.V., Drozdova, O.M. **269**, 256

Hydrodynamic study of supernova 1987A: near the peak luminosity

Utrobin, V. **270**, 249

Crystallization of binary ionic mixtures in dense stellar plasmas

Segretain, L., Chabrier, G. **271**, L13

The equilibrium of a contact binary

Hazlehurst, J. **271**, 209

A new method for analyzing horizontal branch morphology and mass loss

Jørgensen, U.G., Thejll, P. **272**, 255

Oscillating Urca process in mass-accreting white dwarfs

Aparicio, J.M., Isern, J. **272**, 446

Evolutionary sequences of stellar models with semiconvection and convective overshoot. I. $Z=0.008$

Alongi, M., Bertelli, G., Bressan, A., Chiosi, C., Fagotto, F., Greggio, L., Nasi, E. **272**, 754 (97, 851)

Dynamic artificial opacity for flux limited diffusion in hydrodynamics

Dgani, R. **273**, 338

New dating of galactic open clusters

Meynet, G., Mermilliod, J.-C., Maeder, A. **274**, 1011 (98, 477)

Grids of stellar models. II. From 0.8 to 120 M_{\odot} at $Z=0.008$

Schaerer, D., Meynet, G., Maeder, A., Schaller, G. **274**, 1012 (98, 523)

Nonequilibrium effects of gas and radiation on Cepheids

Yan Li **276**, 357

Numerical studies of convective penetration in plane parallel layers and the integral constraint

Roxburgh, I.W., Simmons, J. **277**, 93

Evolutionary sequences of stellar models with new radiative opacities. II. $Z=0.02$

Bressan, A., Fagotto, F., Bertelli, G., Chiosi, C. **277**, 364 (100, 647)

Comparison of remnant masses from close binary evolution with estimates derived from new single star models

De Greve, J.P. **277**, 475

A study of three-dimensional turbulent compressible convection in a deep atmosphere at various Prandtl numbers

Singh, H.P., Chan, K.L. **279**, 107

Two intermediate age open clusters: NGC 752 and NGC 3680

Carraro, G., Bertelli, G., Bressan, A., Chiosi, C. **279**, 337 (101, 381)

Grids of stellar models. III. From 0.8 to 120 M_{\odot} at $Z=0.004$

Charbonnel, C., Meynet, G., Maeder, A., Schaller, G., Schaerer, D. **279**, 338 (101, 415)

Transport of angular momentum and diffusion by the action of internal waves

Schatzman, E. **279**, 431

Stars: kinematics

A comparison between SPH and PPM: simulations of stellar collisions

Davies, M.B., Ruffert, M., Benz, W., Müller, E. **272**, 430

Parallactic variation of gravitational lensing and measurement of stellar mass

Hosokawa, M., Ohnishi, K., Fukushima, T., Takeuti, M. **278**, L27

Stars: late-type

Synthetic AGB evolution. I. A new model

Groenewegen, M.A.T., de Jong, T. **267**, 410

Radio emission from RS CVn stars, Algol, and LSI+61°303

Estalella, R., Paredes, J.M., Rius, A., Martí, J., Peracaula, M. **268**, 178

Relations between the photospheric magnetic field and the emission from the outer atmosphere of cool stars. III. The chromospheric emission from individual flux tubes

Schrijver, C.J. **269**, 395

Magnetic activity in dwarf stars with shallow convective envelopes

Schrijver, C.J. **269**, 446

Empirical effective temperatures and angular diameters of stars cooler than the Sun

Di Benedetto, G.P. **270**, 315

The interchange instability of stellar magnetic flux tubes

Büntte, M., Saar, S.H. **271**, 167

On the infrared properties of S-stars with and without technetium

Groenewegen, M.A.T. **271**, 180

Lithium abundances in a flux-limited sample of galactic carbon stars

Abia, C., Boffin, H.M.J., Isern, J., Rebolo, R. **272**, 455

Activity in late-type stars. VIII. The nature of the dM(e) or "zero" H α stars

Byrne, P.B. **272**, 495

Oxygen-rich late-type star lightcurves in the 1–20 μ m range

Le Bertre, T. **272**, 751 (97, 729)

A study of activity in F-type main-sequence stars using the D $_3$ line of He I

García López, R.J., Rebolo, R., Beckman, J.E., McKeith, C.D. **273**, 482

Loop modeling of coronal X-ray emission from AR Lacertae

Ottmann, R. **273**, 546

Erratum: Radio and X-ray emission from main-sequence K stars

Güdel, M. **273**, 719

Dust destruction in the transition region between stellar wind and interstellar medium

Woitke, P., Dominik, C., Sedlmayr, E. **274**, 451

Doppler imaging with a CLEAN-like approach. I. A newly developed algorithm, simulations, and tests

Kürster, M. **274**, 851

A catalog of chromospherically active binary stars (second edition)

Strassmeier, K.G., Hall, D.S., Fekel, F.C., Scheck, M. **275**, 688 (100, 173)

Chromospheric rotational modulation in solar-like stars. II. Multi-component modelling and rotational period of α Centauri B from Ca II H spectroscopic variability

Char, S., Foing, B.H., Beckman, J., García López, R.J., Rebolo, R. **276**, 78

Circumstellar Mg II absorption in UV spectra of hot companions of red giants and the meaning of the Mg II asymmetry dividing line

Hünsch, M., Reimers, D. **276**, 161

The importance of surface inhomogeneities for K and M dwarf chromospheric fluxes

Panagi, P.M., Mathioudakis, M. **276**, 329 (**100**, 343)

Simulated imaging of the upper atmosphere of active stars

Donati, J.-F., Catala, C. **277**, 123

BV photometry and H α spectroscopy of the RS Canum Venaticorum binary II Pegasi

Mohin, S., Raveendran, A.V. **277**, 155

Cool stars: spectral energy distributions and model atmosphere fluxes

Morossi, C., Franchini, M., Malagnini, M.L., Kurucz, R.L., Buser, R. **277**, 173

A search for yellow young disk population stars among EMSS stellar X-ray sources by means of lithium abundance determination

Favata, F., Barbera, M., Micela, G., Sciortino, S. **277**, 428

Dust formation in stellar winds. VI. Moment equations for the formation of heterogeneous and core-mantle grains

Dominik, C., Sedlmayr, E., Gail, H.-P. **277**, 578

Rotation, magnetic braking, and dynamos in cool giants and subgiants

Schrijver, C.J., Pols, O.R. **278**, 51

Activity in late-type stars. IX. The weakest chromosphere M dwarf yet discovered: Gl 105B

Byrne, P.B. **278**, 520

Space motions of distant red giants: the disk – halo overlap

Flynn, C., Röser, S. **280**, 131

Far-infrared properties of late-type dwarfs. Infrared fluxes of K and M dwarfs

Mathioudakis, M., Doyle, J.G. **280**, 181

Long-term monitoring of active stars. III. $UBV(RI)_c$ photometry of 14 southern hemisphere variables

Cutispoto, G. **280**, 350 (**102**, 655)

The 1.5–1.7 μ m spectrum of cool stars: line identifications, indices for spectral classification and the stellar content of the Seyfert galaxy NGC 1068

Origlia, L., Moorwood, A.F.M., Oliva, E. **280**, 536

Infrared and SiO maser observations of OH/IR stars

Nyman, L.-Å., Hall, P.J., Le Bertre, T. **280**, 551

Stars: low-mass, brown dwarfs

Optical spectroscopy and photometry of the companion of the bright millisecond pulsar J 0437–4715

Danziger, I.J., Baade, D., Della Valle, M. **276**, 382

Very low mass proper motion members in the Pleiades

Hambly, N.C., Hawkins, M.R.S., Jameson, R.F. **277**, 364 (**100**, 607)

The substellar masses of Wolf 424. II

Heintz, W.D. **277**, 452

Intensity of CaH lines in cool dwarfs

Barbuz, B., Schiavon, R.P., Gregorio-Hetem, J., Singh, P.D., Batalha, C. **279**, 338 (**101**, 409)

Lensing of invisible stars by brown dwarfs

Bouquet, A. **280**, 1

Stars: luminosity function, mass function

Star formation history of the young association NGC 1948 at the edge of the supergiant shell LMC 4

Vallenari, A., Bomans, D.J., de Boer, K.S. **268**, 137

Erratum: (RN) The initial mass function of the Coma Berenices open cluster (Mel 111)

Bounatiro, L., Arimoto, N. **268**, 829

Star formation in the Vela molecular clouds. II. The luminosity function of the Class I sources

Lorenzetti, D., Spinoglio, L., Liseau, R. **275**, 489

The bright end of the planetary nebula luminosity function

Méndez, R.H., Kudritzki, R.P., Ciardullo, R., Jacoby, G.H. **275**, 534

Stars: magnetic fields

Periodic radio emission from the helium-strong stars HD 37017 and σ Ori E

Leone, F., Umama, G. **268**, 667

Numerical simulation of the aligned neutron-star magnetosphere

Zachariades, H.A. **268**, 705

Fourier analysis of spotted star light curves as a tool to detect stellar differential rotation

Lanza, A.F., Rodonò, M., Zappalà, R.A. **269**, 351

A study of magnetic fields in Ap Si and He weak stars

Bohlender, D.A., Landstreet, J.D., Thompson, I.B. **269**, 355

Relations between the photospheric magnetic field and the emission from the outer atmosphere of cool stars. III. The chromospheric emission from individual flux tubes

Schrijver, C.J. **269**, 395

Alpha-effect and alpha-quenching

Rüdiger, G., Kichatinov, L.L. **269**, 581

Analytical studies of collimated winds. III. Nonrotating meridional MHD outflows

Trussoni, E., Tsinganos, K. **269**, 589

On the propagation of ideal, linear Alfvén waves in radially stratified stellar atmospheres and winds

Velli, M. **270**, 304

Linear polarimetry of Ap stars. II. New observations with a reappraisal of former ones

Leroy, J.L., Landolfi, M., Landi Degl'Innocenti, E. **270**, 335

Effect of chemical abundance on a Wolf-Rayet stellar wind driven by radiation pressure and Alfvén waves

dos Santos, L.C., Jatenco-Pereira, V., Opher, R. **270**, 345

Discovery of the bright eclipsing polar RX J2107.9–0518

Schwope, A.D., Thomas, H.-C., Beuermann, K. **271**, L25

The interchange instability of stellar magnetic flux tubes

Büntje, M., Saar, S.H. **271**, 167

Linear polarimetry of Ap stars. I. A simple canonical model

Landolfi, M., Landi Degl'Innocenti, E., Landi Degl'Innocenti, M., Leroy, J.L. **272**, 285

The influence of a strong magnetic field on electron capture in an accreting neutron star

Zigao Dai, Tan Lu, Qiuhe Peng **272**, 705

On the cause of luminosity-colour variation in the active binary system DH Leonis

Aslan, Z. **273**, L47

Dynamics of flares on late-type dMe stars. II. Mass motions and prominence oscillations during a flare on AD Leonis

Houdebine, E.R., Foing, B.H., Doyle, J.G., Rodonò, M. **274**, 245

Equilibria of charge-separated rigidly rotating relativistic magnetospheres

Neukirch, T. **274**, 319

Mean-field buoyancy

Kichatinov, L.L., Pipin, V.V. **274**, 647

A possible explanation of the origin of the second kind of magnetic fields of neutron stars

Luo, L.-F., Yang, G.-C., Lu, T. **275**, 192

Simulated imaging of the upper atmosphere of active stars

Donati, J.-F., Catala, C. **277**, 123

Rotation, magnetic braking, and dynamos in cool giants and subgiants

Schrijver, C.J., Pols, O.R. **278**, 51

Zeeman-Doppler imaging of active stars. III. Instrumental and technical considerations

Semel, M., Donati, J.-F., Rees, D.E. **278**, 231

Axisymmetric rotating relativistic bodies: a new numerical approach for "exact" solutions

Bonazzola, S., Gourgoulhon, E., Salgado, M., Marck, J.A. **278**, 421

Cyclotron and Zeeman spectroscopy of MR Serpentis in low and high states of accretion

Schwöpe, A.D., Beuermann, K., Jordan, S., Thomas, H.-C. **278**, 487

Collisions between a white dwarf and a main-sequence star. III. Simulations including the white dwarf surface

Ruffert, M. **280**, 141

A search for magnetic fields in Am stars

Lanz, T., Mathys, G. **280**, 486

Spectral lines unaffected by instrumental polarization. I. Theory

Sánchez Almeida, J., Vela Villaloz, E. **280**, 688

Stars: mass-loss

IRAS 06562-0337: final mass-loss episodes before the formation of a planetary nebula?

García-Lario, P., Manchado, A., Sahu, K.C., Pottasch, S.R. **267**, L11

The spatio-kinematic structure of the CO envelopes of evolved planetary nebulae

Bachiller, R., Huggins, P.J., Cox, P., Forveille, T. **267**, 177

Synthetic AGB evolution. I. A new model

Groenewegen, M.A.T., de Jong, T. **267**, 410

Ultraviolet spectroscopic variability of the WN 5 star HD 50896: timescales and linear physical dimensions of the perturbations

St-Louis, N., Howarth, I.D., Willis, A.J., Stickland, D.J., Smith, L.J., Conti, P.S., Garmany, C.D. **267**, 447

Radial pulsation in variable stars with mass loss

Pijpers, F.P. **267**, 471

High velocity outflow from η Carinae

Damineli Neto, A., Viotti, R., Baratta, G.B., de Araujo, F.X. **268**, 183

Two-dimensional models for solar and stellar winds: hydrodynamic effects

Lima, J.J.G., Priest, E.R. **268**, 641

Modelling of the CO emission around the carbon star S Scuti

Bergman, P., Carlström, U., Olofsson, H. **268**, 685

The mass loss history of high latitude supergiants

van der Veen, W.E.C.J., Trams, N.R., Waters, L.B.F.M. **269**, 231

Evidence for a yellow-supergiant phase of AG Carinae

Robberto, M., Ferrari, A., Nota, A., Paresce, F. **269**, 330

Effect of chemical abundance on a Wolf-Rayet stellar wind driven by radiation pressure and Alfvén waves

dos Santos, L.C., Jatenco-Pereira, V., Opher, R. **270**, 345

New Herbig-Haro objects and pre-main sequence stars in the star formation region NGC 7129

Miranda, L.F., Eiroa, C., Gómez de Castro, A.I. **271**, 564

Infrared emission lines in τ Scorpii: a pole-on Be star?

Waters, L.B.F.M., Marlborough, J.M., Geballe, T.R., Oosterbroek, T., Zaai, P. **272**, L9

A new method for analyzing horizontal branch morphology and mass loss

Jørgensen, U.G., Thejll, P. **272**, 255

High energy gamma-ray emission from open clusters

Polcaro, V.F., Brinkmann, W., Giovannelli, F., Manchanda, R.K., Norci, L., Persi, P., Rossi, C. **272**, 732 (**97**, 139)

Oxygen-rich late-type star lightcurves in the 1–20 μ m range

Le Bertre, T. **272**, 751 (**97**, 729)

Evolutionary sequences of stellar models with semiconvection and convective overshoot. I. $Z=0.008$

Alongi, M., Bertelli, G., Bressan, A., Chiosi, C., Fagotto, F., Greggio, L., Nasi, E. **272**, 754 (**97**, 851)

High resolution Na D and H α line profiles of stars in the globular clusters M 22 and ω Centauri

Bates, B., Kemp, S.N., Montgomery, A.S. **272**, 755 (**97**, 937)

Short-term line-profile variations and episodic mass loss in the Be star ζ Ophiuchi

Kambe, E., Ando, H., Hirata, R. **273**, 435

The circumstellar matter of the magnetic helium-strong star HD 37017

Leone, F. **273**, 509

Radiation hydrodynamics in atmospheres of long-period variables

Feuchtinger, M.U., Dorfi, E.A., Höfner, S. **273**, 513

Unified NLTE model atmospheres including spherical extension and stellar winds. IV. Improved line transfer and wind contamination of H, He profiles

Sellmaier, F., Puls, J., Kudritzki, R.P., Gabler, A., Gabler, R., Voels, S.A. **273**, 533

Circumstellar dust in Mira variables and the mass loss mechanisms

Anandarao, B.G., Pottasch, S.R., Vaidya, D.B. **273**, 570

High-resolution spectrophotometric imaging of the Herbig-Haro object HH 29 in the L 1551 outflow

Fridlund, C.V.M., Liseau, R., Perryman, M.A.C. **273**, 601

Proof for a wind from the hot component in the symbiotic system EG Andromedae

Vogel, M. **274**, L21

Spectral analyses of the galactic Wolf-Rayet stars: a comprehensive study of the WN class

Hamann, W.-R., Koesterke, L., Wessolowski, U. **274**, 397

Dust destruction in the transition region between stellar wind and interstellar medium

Woitke, P., Dominik, C., Sedlmayr, E. **274**, 451

Ultraviolet observations of the circumstellar envelope of α^1 Herculis in the line of sight of α^2 Herculis

Thiering, I., Reimers, D. **274**, 838

Diffuse absorption bands in the spectra of mass-losing objects

Le Bertre, T., Lequeux, J. **274**, 909

Identification of 106 new infrared carbon stars in the IRAS Point Source Catalog: near-infrared photometry and their space distribution in the Galaxy

Guglielmo, F., Epchtein, N., Le Bertre, T., Fouqué, P., Hron, J., Kerschbaum, F., Lépine, J.R.D. **274**, 1015 (**99**, 31)

SN 1993J: explosion of a massive cool supergiant with a small envelope mass?

Höflich, P., Langer, N., Duschinger, M. **275**, L29

CO and HCN observations of circumstellar envelopes. A catalogue. Mass loss rates and distributions

Loup, C., Forveille, T., Omont, A., Paul, J.F. **275**, 354 (**99**, 291)

The 0.1–2.5 keV X-ray spectrum of the O4f star ζ Puppis

Hillier, D.J., Kudritzki, R.P., Pauldrach, A.W., Baade, D., Cassinelli, J.P., Puls, J., Schmitt, J.H.M.M. **276**, 117

Circumstellar Mg II absorption in UV spectra of hot companions of red giants and the meaning of the Mg II asymmetry dividing line

Hünsch, M., Reimers, D. **276**, 161

- Carbon stars with excess emission at 60 μm wavelength
Zuckerman, B. **276**, 367
- AG Carinae. III. The 1990 hot phase of the star and the physical structure of the circumstellar environment
Viotti, R., Polcaro, V.F., Rossi, C. **276**, 432
- An OH satellite line maser survey of cool IRAS sources and circumstellar envelope evolution
David, P., Le Squeren, A.M., Sivagnanam, P. **277**, 453
- A fast non-LTE code for expanding atmospheres: a test of the validity of the Sobolev approximation
de Koter, A., Schmutz, W., Lamers, H.J.G.L.M. **277**, 561
- Optical and infrared observations of two oxygen-rich Miras: dust shell modelling as a function of phase
Le Sidaner, P., Le Bertre, T. **278**, 167
- Modification of the nebular environment in symbiotic systems due to colliding winds
Nussbaumer, H., Walder, R. **278**, 209
- UES and IUE observations of the O9.5 V star HD 93521: non-radial pulsations, wind, and distance
Howarth, I.D., Reid, A.H.N. **279**, 148
- On the synthesis of resonance lines in dynamical models of structured hot-star winds
Puls, J., Owocki, S.P., Fullerton, A.W. **279**, 457
- Observations of stellar winds in high-mass X-ray binaries: evidence for a non-monotonic velocity structure
Kaper, L., Hammerschlag-Hensberge, G., van Loon J.T. **279**, 485
- The exciting sources of Herbig-Haro objects. I. A catalogue of 1–20 μm observations
Molinari, S., Liseau, R., Lorenzetti, D. **279**, 680 (**101**, 59)
- The role of the secondary's rotation in disc formation and structure: an SPH three-dimensional analysis
Belvedere, G., Lanzafame, G., Molteni, D. **280**, 525
- Stars: neutron**
- Modelling time variable and total eclipses of the millisecond pulsar PSR 1744-24A
Tavani, M., Brookshaw, L. **267**, L1
- Period variations and phase residuals in freely precessing stars
Bisnovatyi-Kogan, G.S., Kahabka, P. **267**, L43
- Formation of double neutron star systems and asymmetric supernova explosions
Yamaoka, H., Shigeyama, T., Nomoto, K. **267**, 433
- Numerical simulation of the aligned neutron-star magnetosphere
Zachariades, H.A. **268**, 705
- Old isolated neutron stars: fire burns and cauldron bubbles
Treves, A., Colpi, M., Lipunov, V.M. **269**, 319
- Discovery of a variable super soft X-ray source in the Large Magellanic Cloud during the ROSAT All-Sky Survey
Schaeidt, S., Hasinger, G., Trümper, J. **270**, L9
- Magnetic flares near accreting black holes
Volwerk, M., van Oss, R.F., Kuijpers, J. **270**, 265
- Upper bounds on the neutrino burst from collapse of a neutron star into a black hole
Gourgoulhon, E., Haensel, P. **271**, 187
- The influence of a strong magnetic field on electron capture in an accreting neutron star
Zigao Dai, Tan Lu, Qiuhe Peng **272**, 705
- Optical observations of high energy sources
Bignami, G.F., Caraveo, P.A., Mereghetti, S. **272**, 738 (**97**, 229)
- Mechanisms of hard X-ray emission from accreting neutron stars
Kluźniak, W. **272**, 739 (**97**, 265)
- An accretion induced collapse model for the eclipsing binary pulsar PSR 1718-19
Ergma, E. **273**, L38
- Compton modelling of spectral variations observed in Z sources
Schulz, N.S., Wijers, R.A.M.J. **273**, 123
- Hercules X-1 during the ROSAT All-Sky Survey
Mavromataki, F. **273**, 147
- Geminga: relative phases of the X-ray and γ -ray pulses
Becker, W., Brazier, K.T.S., Trümper, J. **273**, 421
- Two outbursts from A 0538-66 in the ROSAT All-Sky Survey
Mavromataki, F., Haberl, F. **274**, 304
- A self-consistent solution for an accretion disc structure around a rapidly rotating non-magnetized star
Bisnovatyi-Kogan, G.S. **274**, 796
- A possible explanation of the origin of the second kind of magnetic fields of neutron stars
Luo, L.-F., Yang, G.-C., Lu, T. **275**, 192
- Implications of the crustal moment of inertia for neutron-star equations of state
Datta, B., Alpar, M.A. **275**, 210
- The X-ray time variability and spectrum of γ Cassiopeiae (X 0053+604)
Parmar, A.N., Israel, G.L., Stella, L., White, N.E. **275**, 227
- The orbit and pulse period of X 1538-522 from Ginga observations
Corbet, R.H.D., Woo, J.W., Nagase, F. **276**, 52
- The X Persei system in the ROSAT All-Sky survey
Mavromataki, F. **276**, 353
- ROSAT-pointed observations of two gamma-ray burst error boxes
Boër, M., Pizzichini, G., Hartmann, D., Hurley, K., Kouveliotou, C., Motch, C. **277**, 503
- On the nature of the 25-min periodicity from 4U 0142+614: A nearby, slowly spinning neutron star/Be system?
Mereghetti, S., Stella, L., De Nile, F. **278**, L23
- Optical/UV counterpart of the supersoft transient X-ray source RX J0513.9-6951 in the Large Magellanic Cloud
Pakull, M.W., Motch, C., Bianchi, L., Thomas, H.-C., Guibert, J., Beaulieu, J.P., Grison, P., Schaeidt, S. **278**, L39
- Low-mass X-ray binary models for the supersoft X-ray sources CAL 83, CAL 87 and RX J0527.8-6954 in the Large Magellanic Cloud
Kylafis, N.D., Xilouris, E.M. **278**, L43
- The observability of old isolated neutron stars with ROSAT. II. Molecular clouds and deep fields
Colpi, M., Campana, S., Treves, A. **278**, 161
- Axisymmetric rotating relativistic bodies: a new numerical approach for "exact" solutions
Bonazzola, S., Gourgoulhon, E., Salgado, M., Marck, J.A. **278**, 421
- (Stars:) novae, cataclysmic variables**
- A 59^m photometric period in the dwarf nova V 485 Centauri
Augusteijn, T., van Kerwijk, M.H., van Paradijs, J. **267**, L55
- A spectroscopic ephemeris of the secondary star in the AM Herculis binary V 834 Centauri
Schwöpe, A.D., Thomas, H.-C., Beuermann, K., Reinsch, K. **267**, 103
- Near-infrared photometry and spectrophotometry of two unusual novae
Kidger, M.R., Martínez-Roger, C. **267**, 111
- Short optical bursts and acceleration to TeV energies in AE Aquarii
de Jager, O.C., Meintjes, P.J. **268**, L1
- Millimetre observations of old novae
Weight, A., Evans, A., Albinson, J.S., Krautter, J. **268**, 294

- A spectroscopic study of the Z Camelopardalis type dwarf nova KT Persei
Ratering, C., Bruch, A., Diaz, M. **268**, 694
- Nova Cygni 1992 in the post-maximum period
Annik, K., Kolka, I., Leedj  r, L. **269**, L5
- Hydrogen and helium shell flashes on massive accreting white dwarfs
Jos  , J., Hernanz, M., Isern, J. **269**, 291
- The nature of the X-ray spectrum of VW Hydri
van Teeseling, A., Verbunt, F., Heise, J. **270**, 159
- The ellipsoidal shape of the M giant in T Coronae Borealis
Yudin, B., Munari, U. **270**, 165
- Discovery of the bright eclipsing polar RX J2107.9-0518
Schwope, A.D., Thomas, H.-C., Beuermann, K. **271**, L25
- A model for the intrinsic population of cataclysmic variables
Kolb, U. **271**, 149
- The space density of classical novae in the galactic disk
Della Valle, M., Duerbeck, H.W. **271**, 175
- Effects of spiral shocks on disk emission lines
Chakrabarti, S.K., Wiita, P.J. **271**, 216
- Diffuse Galactic annihilation radiation
Ramaty, R., Lingenfelter, R.E. **272**, 732 (**97**, 127)
- First results from COMPTEL measurement of the ^{26}Al 1.8 MeV gamma-ray line from the Galactic center region
Diehl, R., Bennett, K., Bloemen, H., deBoer, H., Busetta, M., Collmar, W., Connors, A., den Herder, J.W., de Vries, C., Hermesen, W., Kn  dlseder, J., Kuiper, L., Lichti, G.G., Lockwood, J., Macri, J., McConnell, M., Morris, D., Much, R., Ryan, J., Sch  nfelder, V., Simpson, G., Stacy, J.G., Steinle, H., Strong, A.W., Swanenburg, B.N., Varendorff, M., von Ballmoos, P. **272**, 735 (**97**, 181)
- Nova Muscae 1991, an exciting dwarf X-ray transient
Lund, N. **272**, 741 (**97**, 289)
- Hard emission from classical novae
Leising, M.D. **272**, 741 (**97**, 299)
- The spectra of Nova Muscae 1991 between 3 keV and 1 MeV observed with GRANAT
Gilfanov, M., Churazov, E., Sunyaev, R., Grebenev, S., Pavlinsky, M., Dyachkov, A., Kovtunenko, V., Kremnev, R., Goldwurm, A., Ballet, J., Laurent, P., Paul, J., Jourdain, E., Schmitz-Fraysse, M.C., Roques, J.P., Mandrou, P. **272**, 741 (**97**, 303)
- Ultraviolet spectroscopy of Nova Muscae 1991
Shrader, C.R., Gonzalez-Riestra, R., Cheng, F.H., Horne, K., Panagia, N., Gilmozzi, R., Lund, N. **272**, 742 (**97**, 309)
- Detection of two new supersoft X-ray sources in the Large Magellanic Cloud
Orio, M.,   gelman, H. **273**, L56
- Period and disk radius changes in the dwarf nova IP Pegasi
Wolf, S., Mantel, K.H., Horne, K., Barwig, H., Schoembs, R., Bernb  tner, O. **273**, 160
- Coronal structures of α -disk models
Tsch  pe, R., Kley, W. **273**, 169
- Erratum: The nature of the X-ray spectrum of VW Hydri
van Teeseling, A., Verbunt, F., Heise, J. **273**, 721
- The ROSAT detection of RS Ophiuchi at quiescence
Orio, M. **274**, L41
- On the ephemeris of the cataclysmic variable V 2051 Ophiuchi: evidence of orbital period cyclic changes
Echevarr  a, J., Alvarez, M. **275**, 187
- Str  mgren photometry of dwarf novae
Echevarr  a, J., Costero, R., Michel, R. **275**, 201
- Clues to the structure of the boundary layer in cataclysmic variables from observations of the flickering
Bruch, A., Duschl, W.J. **275**, 219
- Study of nova shells. I. V 1229 Aquilae (1970): nebular expansion parallax and luminosity
Della Valle, M., Duerbeck, H.W. **275**, 239
- Discovery of the optical counterpart of the soft X-ray transient GRO J0422+32
Castro-Tirado, A.J., Pavlenko, E.P., Shlyapnikov, A.A., Brandt, S., Lund, N., Ortiz, J.L. **276**, L37
- IUE observations of X-ray Nova Muscae 1991 during outburst
Shrader, C.R., Gonzalez-Riestra, R. **276**, 373
- Spectroscopic and photometric behaviour of Nova Cygni 1992 in the first nine months following outburst
Chochol, D., Hric, L., Urban, Z., Kom   ik, R., Grygar, J., Pa-pou  ek, J. **277**, 103
- Improving the eclipse mapping method
Baptista, R., Steiner, J.E. **277**, 331
- MS 1603.6+2600: a unique low-luminosity X-ray binary?
Ergma, E., Vilhu, O. **277**, 483
- On the symbiotic star V 919 Sagittarii
Ivison, R.J., Munari, U., Marang, F. **277**, 510
- Modification of the nebular environment in symbiotic systems due to colliding winds
Nussbaumer, H., Walder, R. **278**, 209
- Cyclotron and Zeeman spectroscopy of MR Serpentis in low and high states of accretion
Schwope, A.D., Beuermann, K., Jordan, S., Thomas, H.-C. **278**, 487
- The period distribution of cataclysmic binaries evolving without magnetic braking
Kolb, U., de Kool, M. **279**, L5
- The explosive thermonuclear formation of ^7Li revisited
Boffin, H.M.J., Paulus, G., Arnould, M., Mowlavi, N. **279**, 173
- Walraven photometry of eight cataclysmic variables
Hollander, A., Kraakman, H., van Paradijs, J. **279**, 680 (**101**, 87)
- Broad-band X-ray observations of the GRO J0422+32 X-ray nova by the "Mir-Kvant" observatory
Sunyaev, R.A., Kaniovsky, A.S., Borozdin, K.N., Efremov, V.V., Aref  ev, V.A., Melioransky, A.S., Skinner, G.K., Pan, H.C., Kend-ziorra, E., Maisack, M., D  bereiner, S., Pietsch, W. **280**, L1
- Temperature structure of a particle-heated magnetic atmosphere
Woelk, U., Beuermann, K. **280**, 169
- An atlas of high resolution line profiles of symbiotic stars. I. Coud   echelle spectrometry of southern objects and a classification system of H α line profiles
Van Winckel, H., Duerbeck, H.W., Schwarz, H.E. **280**, 348 (**102**, 401)
- Stars: oscillations** (including pulsations)
- A new pulsating PG 1159 white dwarf RXJ 2117.1+3412
Vauclair, G., Belmonte, J.A., Pfeiffer, B., Chevreton, M., Dolez, N., Motch, C., Werner, K., Pakull, M.W. **267**, L35
- Radial pulsation in variable stars with mass loss
Pijpers, F.P. **267**, 471
- Seismological observations with a Fourier transform spectrometer: detection of Jovian oscillations
Mosser, B., M  karnia, D., Maillard, J.P., Gay, J., Gautier, D., Delache, P. **267**, 604
- FM Comae (= HR 4684) revisited
Papar  , M., Pena, J., Peniche, R.,   bano  lu, C., Tunca, Z., Evren, S. **268**, 123
- Seismology of δ Scuti stars - GX Pegasi
Goupil, M.J., Michel, E., Lebreton, Y., Baglin, A. **268**, 546

A spectroscopic search for nonradial pulsations in the δ Scuti stars δ Delphini and ϵ Cephei

Baade, D., Bardelli, S., Beaulieu, J.P., Vogel, S. **269**, 195

Stellar and circumstellar short period spectrovariability in the Be star 28 Cygni

Bossi, M., Guerrero, G., Zanin, F. **269**, 343

Nonradial pulsation of the δ Scuti star BU Cancri in the Praesepe cluster

Breger, M., Stich, J., Garrido, R., Martin, B., Jiang Shi-yang, Li Zhi-ping, Hube, D.P., Ostermann, W., Paparo, M., Scheck, M. **271**, 482

Linear analysis of RV Tauri stars: the resonance hypothesis

Tuchman, Y., Lèbre, A., Mennessier, M.O., Yarri, A. **271**, 501

Studies of Cepheid-type variability. XI. Are some BL Herculis variables overtone pulsators?

Petersen, J.O. **272**, 217

Line profile variations of rotating, pulsating stars

Aerts, C., Waelkens, C. **273**, 135

Short-term line-profile variations and episodic mass loss in the Be star ζ Ophiuchi

Kambe, E., Ando, H., Hirata, R. **273**, 435

Simultaneous *uvby* photometry of 28 Andromedae

Rodríguez, E., Rolland, A., López de Coca, P., Garrido, R., Mendoza, E.E. **273**, 473

The period analysis of HD 93044 and its amplitude variations

Liu Zong-Li **274**, 220

A new asymptotic formalism for Jovian seismology

Provost, J., Mosser, B., Berthomieu, G. **274**, 595

Pulsational behaviours of the δ Scuti stars HD 18878 and HD 19279

Mantegazza, L., Poretti, E. **274**, 811

The double-mode semiregular variable UU Herculis: 1990–1992 photometry

Zsoldos, E., Fernie, J.D., Arellano Ferro, A., Seager, S. **275**, 484

Nonequilibrium effects of gas and radiation on Cepheids

Yan Li **276**, 357

On the irregular light variation of RU Camelopardalis

Kolláth, Z., Szeidl, B. **277**, 62

On the spectrum of the linear nonadiabatic radial stellar modes

Glasner, A., Buchler, J.R. **277**, 69

Pulsational behaviour of 44 Tauri

Akan, M.C. **278**, 150

A new tool to study wave propagation: the Van Hoof effect

Mathias, P., Gillet, D. **278**, 511

Limits on mode identifications in rotating, non-radially pulsating stars

Reid, A.H.N., Aerts, C. **279**, L25

Nonlinear models of first overtone mode Cepheids

Antonello, E., Aikawa, T. **279**, 119

The asymmetry parameter $M-m$ of the light curves of Cepheids in the Galaxy and Magellanic Clouds

Antonello, E. **279**, 125

UES and IUE observations of the O9.5 V star HD 93521: non-radial pulsations, wind, and distance

Howarth, I.D., Reid, A.H.N. **279**, 148

An astronomical seismometer

Frandsen, S., Douglas, N.G., Butcher, H.R. **279**, 310

Simultaneous *uvby* photometry of GP Andromedae

Rodríguez, E., Rolland, A., López de Coca, P. **279**, 338 (**101**, 421)

Study of the Population II Cepheid AU Pegasi

Vinkó, J., Szabados, L., Szatmáry, K. **279**, 410

Non-linear, non-radial, isentropic oscillations of stars: third-order coupled-mode equations

Van Hoolst, T., Smeyers, P. **279**, 417

Stellar pulsations with stochastic driving

Buchler, J.R., Goupil, M.-J., Kovács, G. **280**, 157

V 487 Cassiopeiae (HD 6474): a UU Herculis variable in the galactic plane?

Zsoldos, E. **280**, 177

Mode identification of pulsating stars from line profile variations with the moment method. A theoretical study of the accuracy of the method

De Pauw, M., Aerts, C., Waelkens, C. **280**, 493

Stars: peculiar (except chemically peculiar)

Magnetic flares near accreting black holes

Volwerk, M., van Oss, R.F., Kuipers, J. **270**, 265

Stars: planetary systems

Are there really planets around PSR 1257+12?

Gil, J.A., Jessner, A., Kramer, M. **271**, L17

Line formation and variability in spectra of gamma-ray bursts

Bisnovatyi-Kogan, G.S. **272**, 728 (**97**, 65)

Planetary system around the pulsar PSR 1257+12

Bisnovatyi-Kogan, G.S. **275**, 161

Search for primitive life on a distant planet: relevance of O₂ and O₃ detections

Léger, A., Pirre, M., Marceau, F.J. **277**, 309

A list of possible interstellar communication channel frequencies for SETI

Blair, D.G., Zadnik, M.G. **278**, 669

Stars: pre-main sequence

Star formation in Bok globules and low-mass clouds. V. H α emission stars near Sa 101, CG 13 and CG 22

Reipurth, B., Pettersson, B. **267**, 439

A kinematical study of the jet GGD 34

Gómez de Castro, A., Miranda, L.F., Eiroa, C. **267**, 559

The spectral variability of DR Tauri

Guenther, E., Hessman, F.V. **268**, 192

The molecular outflow very near L 1551 IRS 5

Fridlund, C.V.M., Knee, L.B.G. **268**, 245

Lyman α emission in spectra of Herbig Ae stars. An indication of accretion?

Blondel, P.F.C., Talavera, A., Tjin A Djie, H.R.E. **268**, 624

Erratum: Identification of IRAS point sources in Scorpio-Centaurus-Lupus

Carballo, R., Wesselius, P.R., Whittet, D.C.B. **268**, 832

The new Be-type star HD 147196 in the ρ Ophiuchi dark cloud region

Thé, P.S., Pérez, M.R., de Winter, D., van den Ancker, M.E. **269**, 181

Sub-diffraction-limited infrared speckle observations of Z Canis Majoris, a 0^h10 variable binary star

Haas, M., Christou, J.C., Zinnecker, H., Ridgway, S.T., Leinert, C. **269**, 282

Detection of a 400 AU disk-like structure surrounding the young stellar object Z CMa

Malbet, F., Rigaut, F., Bertout, C., Léna, P. **271**, L9

Near-infrared speckle interferometry of Lk H α 233

Leinert, C., Haas, M., Weitzel, N. **271**, 535

New Herbig-Haro objects and pre-main sequence stars in the star formation region NGC 7129

- Miranda, L.F., Eiroa, C., Gómez de Castro, A.I. **271**, 564
 COYOTES I: the photometric variability and rotational evolution of T Tauri stars
 Bouvier, J., Cabrit, S., Fernández, M., Martín, E.L., Matthews, J.M. **272**, 176
 T Chamaeleontis: a "weak-line" YY Orionis star?
 Alcalá, J.M., Covino, E., Franchini, M., Krautter, J., Terranegra, L., Wichmann, R. **272**, 225
 Star formation in L 1251: distance and members
 Kun, M., Prusti, T. **272**, 235
 Water masers associated with Herbig Ae/Be stars
 Palla, F., Prusti, T. **272**, 249
 The behavior of the OI line 7772 in Be and related stars
 Jaschek, M., Jaschek, C., Andrillat, Y. **272**, 752 (**97**, 781)
 An embedded cluster of stars at the Rosette GMC CO peak
 Block, D.L., Geballe, T.R., Dyson, J.E. **273**, L41
 On the nature of the stellar cluster at the Rosette GMC CO peak
 Hanson, M.M., Geballe, T.R., Conti, P.S., Block, D.L. **273**, L44
 Cold dust around Herbig-Haro energy sources: a 1300 μ m survey
 Reipurth, B., Chini, R., Krügel, E., Kreysa, E., Sievers, A. **273**, 221
 High-resolution spectrophotometric imaging of the Herbig-Haro object HH 29 in the L 1551 outflow
 Fridlund, C.V.M., Liseau, R., Perryman, M.A.C. **273**, 601
 H α interferometric, optical and near IR photometric studies of star forming regions. I. The Cepheus B/Sh2-155/Cepheus OB3 association complex
 Moreno-Corral, M.A., Chavarría-K., C., de Lara, E., Wagner, S. **273**, 619
 EK Cephei B: a test object for pre-ZAMS models of solar-type stars
 Martín, E.L., Rebolo, R. **274**, 274
 Tidally-induced warps in T Tauri disks. I. First-order perturbation theory
 Terquem, C., Bertout, C. **274**, 291
 Rotational evolution of magnetic T Tauri stars with accretion discs
 Cameron, A.C., Campbell, C.G. **274**, 309
 UV spectral variability in the Herbig Ae star HR 5999. XI. The accretion interpretation
 Pérez, M.R., Grady, C.A., Thé, P.S. **274**, 381
 The accreting circumstellar gas envelope of HD 176386 a young star in the R Coronae Austrinae star formation region
 Grady, C.A., Pérez, M.R., Thé, P.S. **274**, 847
 Accretion disks around T Tauri stars. IV. The disk-star boundary layer
 Bertout, C., Bouvier, J., Duschl, W.J., Tscharnuter, W.M. **275**, 236
 Multi-site continuous spectroscopy. I. Overview of the MUSICOS 1989 campaign organization
 Catala, C., Foing, B.H., Baudrand, J., Cao, H., Char, S., Chatzichristou, H., Cuby, J.G., Czarny, J., Dreux, M., Felenbok, P., Floquet, M., Guérin, J., Huang, L., Hubert-Delpace, A.M., Hubert, H., Huovelin, J., Jankov, S., Jiang, S., Li, Q., Neff, J.E., Petrov, P., Savanov, I., Shcherbakov, A., Simon, T., Tuominen, I., Zhai, D. **275**, 245
 Star formation in the Vela molecular clouds. II. The luminosity function of the Class I sources
 Lorenzetti, D., Spinoglio, L., Liseau, R. **275**, 489
 Very small dust grains in the circumstellar environment of Herbig Ae/Be stars
 Natta, A., Prusti, T., Krügel, E. **275**, 527
 Variable redshifted HeI absorption lines in BM Andromedae
 Guenther, E., Hessman, F.V. **276**, L25
 A 1.3 mm survey for circumstellar dust around young Chamaeleon objects
 Henning, T., Pfau, W., Zinnecker, H., Prusti, T. **276**, 129
 A decade of photometric observations of young stars – with special comments on periodicities
 Gahm, G.F., Gullbring, E., Fischerström, C., Lindroos, K.P., Lodén, K. **276**, 329 (**100**, 371)
 Hubble space telescope astrometric observations of pre-main sequence stars from the HIPPARCOS program
 Bernacca, P.L., Lattanzi, M.G., Bucciarelli, B., Bastian, U., Barbaro, G., Pannunzio, R., Badiali, M., Cardini, D., Emanuele, A. **278**, L47
 Visual binaries among pre-main sequence stars
 Reipurth, B., Zinnecker, H. **278**, 81
 A systematic search for young binaries in Taurus
 Leinert, C., Zinnecker, H., Weitzel, N., Christou, J., Ridgway, S.T., Jameson, R., Haas, M., Lenzen, R. **278**, 129
 Circular polarization and variability in the spectra of Herbig Ae/Be stars. I. The FeII 5018 Å and HeI 5876 Å lines of AB Aurigae
 Catala, C., Böhm, T., Donati, J.-F., Semel, M. **278**, 187
 Molecular outflows entrained by jet bowshocks
 Raga, A., Cabrit, S. **278**, 267
 Multifrequency observations of AB Doradus. X-ray flaring and rotational modulation of a young star
 Vilhu, O., Tsuru, T., Collier Cameron, A., Budding, E., Banks, T., Slee, B., Ehrenfreund, P., Foing, B.H. **278**, 467
 ROSAT-detection of a giant X-ray flare on LkH α 92
 Preibisch, T., Zinnecker, H., Schmitt, J.H.M.M. **279**, L33
 Infrared photometry of the young stellar objects V 346 Normae and Re 13
 Prusti, T., Bontekoe, T.R., Chiar, J.E., Kester, D.J.M., Whittet, D.C.B. **279**, 163
 Optical evidence for a poorly-collimated wind from Cepheus A
 Corcoran, D., Ray, T.P., Mundt, R. **279**, 206
 The circumstellar gleam from the T Tauri star RY Lupi
 Gahm, G.F., Liseau, R., Gullbring, E., Hartstein, D. **279**, 477
 The influence of ice-coated grains on protostellar spectra
 Preibisch, T., Ossenkopf, V., Yorke, H.W., Henning, T. **279**, 577
 COYOTES I. Multisite UBVR photometry of 24 pre-main-sequence stars of the Taurus-Auriga cloud
 Bouvier, J., Cabrit, S., Fernández, M., Martín, E.L., Matthews, J.M. **279**, 675 (**101**, 485)
 A spectral atlas of the Herbig Ae star AB Aurigae. The visible domain from 391 to 874 nm
 Böhm, T., Catala, C. **279**, 678 (**101**, 629)
 The exciting sources of Herbig-Haro objects. I. A catalogue of 1–20 μ m observations
 Molinari, S., Liseau, R., Lorenzetti, D. **279**, 680 (**101**, 59)
 uvby β and JHKLM photometry of peculiar stars in the galactic cluster NGC 2264
 Neri, L.J., Chavarría-K., C., de Lara, E. **280**, 345 (**102**, 201)
 (Stars:) pulsars: general
 Modelling time variable and total eclipses of the millisecond pulsar PSR 1744-24A
 Tavani, M., Brookshaw, L. **267**, L1
 Period variations and phase residuals in freely precessing stars
 Bisnovatyi-Kogan, G.S., Kahabka, P. **267**, L43
 An empirical torque noise and spin-up model for accretion-powered X-ray pulsars
 Baykal, A., Ögelman, H. **267**, 119
 Formation of double neutron star systems and asymmetric supernova explosions

- Yamaoka, H., Shigeyama, T., Nomoto, K. **267**, 433
Spectral and temporal properties of the X-ray pulsar SMC X-1 at hard X-rays
Kunz, M., Gruber, D.E., Kendziorra, E., Kretschmar, P., Maisack, M., Mony, B., Staubert, R., Döbereiner, S., Englhauser, J., Pietsch, W., Reppin, C., Trümper, J., Efremov, V.V., Kaniovsky, A.S., Kuznetsov, A., Sunyaev, R. **268**, 116
Numerical simulation of the aligned neutron-star magnetosphere
Zachariades, H.A. **268**, 705
The spectral variability of the γ -ray emission from Geminga and Vela and its implications
Grenier, I.A., Hermsen, W., Henriksen, R.N. **269**, 209
Evolution of binaries with a low mass component immersed in a radiation field. I. Effect of irradiation by a millisecond pulsar companion
D'Antona, F., Ergma, E. **269**, 219
Intensity dependence of the PSR 0329+54 pulse profile
McKinnon, M.M., Hankins, T.H. **269**, 325
Recent phase changes in X Persei: optical, infrared and X-ray behaviour
Roche, P., Coe, M.J., Fabregat, J., McHardy, I.M., Norton, A.J., Percy, J.R., Reglero, V., Reynolds, A., Unger, S.J. **270**, 122
Are there really planets around PSR 1257+12?
Gil, J.A., Jessner, A., Kramer, M. **271**, L17
First detection of pulsars at mm-wavelengths
Wielebinski, R., Jessner, A., Kramer, M., Gil, J.A. **272**, L13
A model for polarization of pulsar radiation
Gil, J.A., Kijak, J., Życki, P. **272**, 207
On the two-dimensional structure of pulsar beams
Gil, J.A., Kijak, J., Seiradakis, J.H. **272**, 268
The Compton Gamma Ray Observatory
Gehrels, N., Chipman, E., Kniffen, D.A. **272**, 724 (97, 5)
Overview of the first results from EGRET
Fichtel, C.E., Bertsch, D.L., Hartman, R.C., Hunter, S.D., Kanbach, G., Kniffen, D.A., Kwok, P.W., Lin, Y.C., Mattox, J.R., Mayer-Hasselwander, H.A., Michelson, P.F., von Montigny, C., Nolan, P.L., Pinkau, K., Rothermel, H., Schneid, E.J., Sommer, M., Sreekumar, P., Thompson, D.J. **272**, 725 (97, 13)
Overview of observations from BATSE on the Compton Observatory
Fishman, G.J., Meegan, C.A., Wilson, R.B., Paciesas, W.S., Pendleton, G.N., Harmon, B.A., Horack, J.M., Brock, M.N., Kouveliotou, C., Finger, M.H. **272**, 725 (97, 17)
Optical observations of high energy sources
Bignami, G.F., Caraveo, P.A., Mereghetti, S. **272**, 738 (97, 229)
Infrared and optical studies of Be star/X-ray binaries
Coe, M.J., Everall, C., Fabregat, J., Gorrod, M.J., Norton, A.J., Reglero, V., Roche, P., Unger, S.J. **272**, 738 (97, 245)
Multi-wavelength observations of phase changes in X Persei
Roche, P., Coe, M.J., Everall, C., Fabregat, J., Norton, A.J., Reglero, V., Unger, S.J. **272**, 740 (97, 277)
Gamma rays from "hidden" millisecond pulsars
Tavani, M. **272**, 742 (97, 313)
Phase distribution of the 0.44 MeV feature in the Crab pulsar spectrum
Olive, J.F., Agrinier, B., Barouch, E., Comte, R., Costa, E., Cusumano, G.C., Gerardi, G., Lemoine, D., Mandrou, P., Masnou, J.L., Massaro, E., Matt, G., Mineo, T., Niel, M., Parlier, B., Sacco, B., Salvati, M., Scarsi, L. **272**, 742 (97, 321)
Observation of the Vela gamma-ray pulsar with the GAMMA-1 telescope
Ozerov, Y., Rudko, V., Topchiev, N., Zemskov, V. **272**, 743 (97, 325)
WATCH observations of the X-ray pulsar GX 301-2
Castro-Tirado, A.J., Brandt, S., Lund, N., Dremine, V., Lapshov, I., Sunyaev, R. **272**, 743 (97, 329)
Discovery of the high energy emission from the transient X-ray pulsar GRS 0834-430
Denis, M., Roques, J.P., Barret, D., Lei, F., Lebrun, F., Claret, A., Goldwurm, A., Leray, J.P., Churazov, E., Gilfanov, M., Sunyaev, R., Bogomolov, A., Khavenson, N., Kuleshova, N., Tserenin, I., Sukhanov, K. **272**, 743 (97, 333)
Detection of ^{57}Co γ -rays from SN 1987 A and prospect of X-ray observations of the pulsar with ASUKA
Kumagai, S., Nomoto, K., Shigeyama, T., Hashimoto, M., Itoh, M. **273**, 153
Period dependence of radio emission altitudes in the pulsar magnetosphere
Gil, J.A., Kijak, J. **273**, 563
Equilibria of charge-separated rigidly rotating relativistic magnetospheres
Neukirch, T. **274**, 319
A new pulsar-supernova remnant association: PSR 2334+61 and G 114.3+0.3
Fürst, E., Reich, W., Seiradakis, J.H. **276**, 470
Structure and evolution of X-ray heated compact binaries
Hameury, J.-M., King, A.R., Lasota, J.-P., Raison, F. **277**, 81
A high-frequency radio observation of NGC 6624
Johnston, H.M., Kulkarni, S.R. **280**, 523

(Stars:) pulsars: individual: ...

A 0535+26
Observation of the X-ray pulsar A 0535+26 with the FIGARO II experiment
Olive, J.F., Agrinier, B., Barouch, E., Comte, R., Costa, E., Cusumano, G.C., Gerardi, G., Mandrou, P., Masnou, J.L., Massaro, E., Matt, G., Mineo, T., Niel, M., Parlier, B., Sacco, B., Salvati, M., Scarsi, L. **272**, 743 (97, 335)

A 1118-61
Two transient X-ray sources observed with the WATCH experiment
Brandt, S., Castro-Tirado, A.J., Lund, N., Dremine, V., Lapshov, I., Sunyaev, R. **272**, 739 (97, 257)

Crab pulsar (=PSR 0531+21)
Initial results from OSSE on the Compton Observatory
Johnson, W.N., Kurfess, J.D., Purcell, W.R., Matz, S.M., Ulmer, M.P., Strickman, M.S., Murphy, R.J., Grabelsky, D.A., Kinzer, R.L., Share, G.H., Cameron, R.A., Kroeger, R.A., Maisack, M., Jung, G.V., Jensen, C.M., Clayton, D.D., Leising, M.D., Grove, J.E., Dyer, C.S. **272**, 725 (97, 21)
An overview of first results from COMPTEL
Schönfelder, V., Aarts, H.J.M., Bennett, K., Bloemen, H., de Boer, H., Busetta, M., Collmar, W., Connors, A., Diehl, R., den Herder, J.W., Hermsen, W., Kuiper, L., Lichti, G.G., Lockwood, J., Macri, J., McConnell, M., Morris, D., Much, R., Ryan, J., Simpson, G., Stacy, J.G., Steinle, H., Strong, A.W., Swanenburg, B.N., Taylor, V., Varendorff, M., de Vries, C., Webber, W., Winkler, C. **272**, 725 (97, 27)
The Crab and Galactic anticentre region observed by COMPTEL
Strong, A.W., Bennett, K., Bloemen, H., de Boer, H., Buccheri, R., Busetta, M., Collmar, W., Connors, A., Diehl, R., den Herder, J.W., Hermsen, W., Kuiper, L., Lockwood, J., Lichti, G.G., Macri, J., McConnell, M., Morris, D., Much, R., Ryan, J., Schönfelder, V., Simpson, G., Stacy, J.G., Steinle, H., Swanenburg, B.N., Varen-

- dorff, M., Winkler, C., de Vries, C. **272**, 732 (**97**, 133)
- COMPTEL observations of the Crab and Vela pulsars
 Bennett, K., Aarts, H., Bloemen, H., Buccheri, R., Busetta, M., Collmar, W., Connors, A., Carramiñana, A., Cobbly, T., Diehl, R., de Boer, H., den Herder, J.W., Hermesen, W., Kuiper, L., Lockwood, J., Lichti, G.G., Macri, J., McConnell, M., Morris, D., Much, R., Ryan, J., Schönfelder, V., Simpson, G., Stacy, J.G., Steinle, H., Strong, A., Swanenburg, B.N., Taylor, B., Varendorff, M., de Vries, C., Webber, W., Winkler, C. **272**, 742 (**97**, 317)
- Phase distribution of the 0.44 MeV feature in the Crab pulsar spectrum
 Olive, J.F., Agrinier, B., Barouch, E., Comte, R., Costa, E., Cusumano, G.C., Gerardi, G., Lemoine, D., Mandrou, P., Masnou, J.L., Massaro, E., Matt, G., Mineo, T., Niel, M., Parlier, B., Sacco, B., Salvati, M., Scarsi, L. **272**, 742 (**97**, 321)
- Geminga (= 2 CG 195+04 = 1E 0630+178)**
- Search for TeV gamma rays from Geminga
 Vishwanath, P.R., Sathyanarayana, G.P., Ramanamurthy, P.V., Bhat, P.N. **267**, L5
- The spectral variability of the γ -ray emission from Geminga and Vela and its implications
 Grenier, I.A., Hermesen, W., Henriksen, R.N. **269**, 209
- The Crab and Galactic anticentre region observed by COMPTEL
 Strong, A.W., Bennett, K., Bloemen, H., de Boer, H., Buccheri, R., Busetta, M., Collmar, W., Connors, A., Diehl, R., den Herder, J.W., Hermesen, W., Kuiper, L., Lockwood, J., Lichti, G.G., Macri, J., McConnell, M., Morris, D., Much, R., Ryan, J., Schönfelder, V., Simpson, G., Stacy, J.G., Steinle, H., Swanenburg, B.N., Varendorff, M., Winkler, C., de Vries, C. **272**, 732 (**97**, 133)
- Is Geminga a glitching pulsar?
 Alpar, M.A., Ögelman, H., Shaham, J. **273**, L35
- Precise measurements of the right ascension of the Geminga pulsar using COS-B data
 Cheng, L.X., Li, T.P., Ma, Y.Q., Sun, X.J., Wu, M. **277**, L13
- GRS 0834-430**
- Discovery of the high energy emission from the transient X-ray pulsar GRS 0834-430
 Denis, M., Roques, J.P., Barret, D., Lei, F., Lebrun, F., Claret, A., Goldwurm, A., Leray, J.P., Churazov, E., Gilfanov, M., Sunyaev, R., Bogomolov, A., Khavenson, N., Kuleshova, N., Tserenin, I., Sukhanov, K. **272**, 743 (**97**, 333)
- GX 1+4**
- SIGMA observations of bright X-ray binaries
 Laurent, P., Claret, A., Cordier, B., Lebrun, F., Denis, M., Bouchet, L., Lei, F., Barret, D., Churazov, E., Gilfanov, M., Sunyaev, R., Diachkov, A., Khavenson, N., Kremnev, R., Sukhanov, K., Kuleshova, N. **272**, 737 (**97**, 225)
- Photon spectrum and period evolution of GX 1+4 as observed at hard X-ray energies by SIGMA
 Laurent, P., Salotti, L., Paul, J., Lebrun, F., Denis, M., Barret, D., Jourdain, E., Roques, J.P., Churazov, E., Gilfanov, M., Sunyaev, R., Diachkov, A., Khavenson, N., Novikov, B., Chulkov, I., Kuznetsov, A. **278**, 444
- GX 301-2**
- WATCH observations of the X-ray pulsar GX 301-2
 Castro-Tirado, A.J., Brandt, S., Lund, N., Dremin, V., Lapshov, I., Sunyaev, R. **272**, 743 (**97**, 329)
- PSR J0437-4715**
- Optical spectroscopy and photometry of the companion of the bright millisecond pulsar J 0437-4715
 Danziger, I.J., Baade, D., Della Valle, M. **276**, 382
- PSR 0329+54**
- Intensity dependence of the PSR 0329+54 pulse profile
 McKinnon, M.M., Hankins, T.H. **269**, 325
- First detection of pulsars at mm-wavelengths
 Wielebinski, R., Jessner, A., Kramer, M., Gil, J.A. **272**, L13
- PSR 0355+54**
- First detection of pulsars at mm-wavelengths
 Wielebinski, R., Jessner, A., Kramer, M., Gil, J.A. **272**, L13
- PSR 0531+21**
- Observations of TeV gamma rays from the Crab nebula
 Goret, P., Palfrey, T., Tabary, A., Vacanti, G., Bazer-Bachi, R. **270**, 401
- PSR 0823+26**
- First detection of pulsars at mm-wavelengths
 Wielebinski, R., Jessner, A., Kramer, M., Gil, J.A. **272**, L13
- PSR 1257+12**
- Are there really planets around PSR 1257+12?
 Gil, J.A., Jessner, A., Kramer, M. **271**, L17
- Line formation and variability in spectra of gamma-ray bursts
 Bisnovatyi-Kogan, G.S. **272**, 728 (**97**, 65)
- Planetary system around the pulsar PSR 1257+12
 Bisnovatyi-Kogan, G.S. **275**, 161
- PSR 1718-19**
- An accretion induced collapse model for the eclipsing binary pulsar PSR 1718-19
 Ergma, E. **273**, L38
- PSR 1744-24A**
- Modelling time variable and total eclipses of the millisecond pulsar PSR 1744-24A
 Tavani, M., Brookshaw, L. **267**, L1
- PSR 2334+61**
- A new pulsar-supernova remnant association: PSR 2334+61 and G 114.3+0.3
 Fürst, E., Reich, W., Seiradakis, J.H. **276**, 470
- Vela pulsar (= PSR 0833+45)**
- The spectral variability of the γ -ray emission from Geminga and Vela and its implications
 Grenier, I.A., Hermesen, W., Henriksen, R.N. **269**, 209
- Overview of the first results from EGRET
 Fichtel, C.E., Bertsch, D.L., Hartman, R.C., Hunter, S.D., Kanbach, G., Kniffen, D.A., Kwok, P.W., Lin, Y.C., Mattox, J.R., Mayer-Hasselwander, H.A., Michelson, P.F., von Montigny, C.,

An overview of first results from COMPTEL

Schönfelder, V., Aarts, H.J.M., Bennett, K., Bloemen, H., de Boer, H., Busetta, M., Collmar, W., Connors, A., Diehl, R., den Herder, J.W., Hermesen, W., Kuiper, L., Lichti, G.G., Lockwood, J., Macri, J., McConnell, M., Morris, D., Much, R., Ryan, J., Simpson, G., Stacy, J.G., Steinle, H., Strong, A.W., Swanenburg, B.N., Taylor, V., Varendorff, M., de Vries, C., Webber, W., Winkler, C. **272**, 725 (97, 27)

COMPTEL observations of the Crab and Vela pulsars

Bennett, K., Aarts, H., Bloemen, H., Bucccheri, R., Busetta, M., Collmar, W., Connors, A., Carramiñana, A., Cobbly, T., Diehl, R., de Boer, H., den Herder, J.W., Hermesen, W., Kuiper, L., Lockwood, J., Lichti, G.G., Macri, J., McConnell, M., Morris, D., Much, R., Ryan, J., Schönfelder, V., Simpson, G., Stacy, J.G., Steinle, H., Strong, A., Swanenburg, B.N., Taylor, B., Varendorff, M., de Vries, C., Webber, W., Winkler, C. **272**, 742 (97, 317)

Observation of the Vela gamma-ray pulsar with the GAMMA-1 telescope

Olive, J.-F., Leikov, N., Akimov, V., Afanassyev, V., Barouch, E., Bazer-Bachi, R., Blochintsev, I., Buczkowska, A., Chuikin, E., Fradkin, M., Galper, A.M., Grenier, I.A., Gros, M., Grygorczuk, J., Juchniewicz, J., Lavigne, J.-M., McCulloch, P., Nesterov, V., Ozerov, Y., Rudko, V., Topchiev, N., Zemskov, V. **272**, 743 (97, 325)

Stars: rotation

A finite-difference adaptive grid method for computing the equilibria of rotating self-gravitating barotropic gases

Galkin, S.A., Denissov, A.A., Drozdov, V.V., Drozdova, O.M. **269**, 256

Stellar rotational velocities from the $V \sin i$ observations: inversion procedures and applications to open clusters

Gaigé, Y. **269**, 267

Fourier analysis of spotted star light curves as a tool to detect stellar differential rotation

Lanza, A.F., Rodonò, M., Zappalà, R.A. **269**, 351

Magnetic activity in dwarf stars with shallow convective envelopes

Schrijver, C.J. **269**, 446

COYOTES I: the photometric variability and rotational evolution of T Tauri stars

Bouvier, J., Cabrit, S., Fernández, M., Martín, E.L., Matthews, J.M. **272**, 176

Rotational modulation and flares on RS Canum Venaticorum and BY Draconis stars. XVII. UV spectroscopy and optical photometry of AU Microscopii in 1986

Quin, D.A., Doyle, J.G., Butler, C.J., Byrne, P.B., Swank, J.H. **272**, 477

Line profile variations of rotating, pulsating stars

Aerts, C., Waelkens, C. **273**, 135

Rotational evolution of magnetic T Tauri stars with accretion discs

Cameron, A.C., Campbell, C.G. **274**, 309

Doppler imaging with a CLEAN-like approach. I. A newly developed algorithm, simulations, and tests

Kürster, M. **274**, 851

 A -effect and differential rotation in stellar convection zones

Kichatinov, L.L., Rüdiger, G. **276**, 96

A decade of photometry of LQ Hydrae

Jetsu, L. **276**, 345

On the radial velocity variations in Be stars

Savonije, G.J., Heemskerk, M.H.M. **276**, 409

The apsidal motion test of the internal stellar structure: comparison between theory and observations

Claret, A., Giménez, A. **277**, 487

Rotation, magnetic braking, and dynamos in cool giants and subgiants

Schrijver, C.J., Pols, O.R. **278**, 51

Axisymmetric rotating relativistic bodies: a new numerical approach for "exact" solutions

Bonazzola, S., Gourgoulhon, E., Salgado, M., Marck, J.A. **278**, 421

Multifrequency observations of AB Doradus. X-ray flaring and rotational modulation of a young star

Vilhu, O., Tsuru, T., Collier Cameron, A., Budding, E., Banks, T., Slee, B., Ehrenfreund, P., Foing, B.H. **278**, 467

Rotational modulation and flares on the RS Canum Venaticorum binary π Pegasi in July/September 1990: spots and flares on π Pegasi

Doyle, J.G., Mathioudakis, M., Murphy, H.M., Avgoloupis, S., Mavridis, L.N., Seiradakis, J.H. **278**, 499

An $\alpha\Omega$ -model of the solar differential rotation

Küker, M., Rüdiger, G., Kichatinov, L.L. **279**, L1

Limits on mode identifications in rotating, non-radially pulsating stars

Reid, A.H.N., Aerts, C. **279**, L25

UES and IUE observations of the O9.5 V star HD 93521: non-radial pulsations, wind, and distance

Howarth, I.D., Reid, A.H.N. **279**, 148

Transport of angular momentum and diffusion by the action of internal waves

Schatzman, E. **279**, 431

COYOTES I. Multisite *UBVR* photometry of 24 pre-main-sequence stars of the Taurus-Auriga cloud

Bouvier, J., Cabrit, S., Fernández, M., Martín, E.L., Matthews, J.M. **279**, 675 (101, 485)

The role of the secondary's rotation in disc formation and structure: an SPH three-dimensional analysis

Belvedere, G., Lanzafame, G., Molteni, D. **280**, 525

Stars: statistics

Visual binaries among pre-main sequence stars

Reipurth, B., Zinnecker, H. **278**, 81

Upper bounds on the cosmological density of compact objects with sub-solar masses from the variability of QSOs

Schneider, P. **279**, 1

A model of the Galaxy for predicting star counts in the infrared

Ortiz, R., Lépine, J.R.D. **279**, 90

(Stars:) subdwarfs

On the formation rate and space density of close white dwarf main sequence star binaries

de Kool, M., Ritter, H. **267**, 397

Spectral analysis of extremely helium rich subdwarf O-stars

Dreizler, S. **273**, 212

Hot subluminous stars at high galactic latitudes. IV. Physical parameters and distances of 18 hot subdwarf stars and their spatial distribution

Theissen, A., Moehler, S., Heber, U., de Boer, K.S. **273**, 524

NLTE analysis of subluminous O stars: the hot subdwarf in the binary system HD 128220

Rauch, T. **276**, 171

Spectroscopic observations of sixteen BL Lacertae candidates

Véron-Cetty, M.-P., Véron, P. **277**, 362 (100, 521)

(Stars:) supergiants

Radial pulsation in variable stars with mass loss

Pijpers, F.P. **267**, 471

- The K-type supergiant HR 237 (HD 4817)
Griffin, R.F. **268**, 615
- The mass loss history of high latitude supergiants
van der Veen, W.E.C.J., Trams, N.R., Waters, L.B.F.M. **269**, 231
- Evidence for a yellow-supergiant phase of AG Carinae
Robberto, M., Ferrari, A., Nota, A., Paresce, F. **269**, 330
- Analysis of NGC 1948 F6:4, a star in a young association of the LMC
Spite, F., Barbuy, B., Spite, M. **272**, 116
- Galactic B-supergiants. II. Line strengths in the visible – Evidence for evolutionary effects?
Lennon, D.J., Dufton, P.L., Fitzsimmons, A. **272**, 750 (**97**, 559)
- Oxygen-rich late-type star lightcurves in the 1–20 μm range
Le Bertre, T. **272**, 751 (**97**, 729)
- Erratum: The calibration of Strömgren photometry for A, F and early G supergiants. III. The A and early F supergiants
Gray, R.O. **273**, 349
- A possible cause for the variations in the “underlying” absorption-line profiles in the spectrum of P Cygni
Markova, N. **273**, 555
- A forgotten episode of the η Carinae light curve in 1860–1865
Polcaro, V.F., Viotti, R. **274**, 807
- AG Carinae. III. The 1990 hot phase of the star and the physical structure of the circumstellar environment
Viotti, R., Polcaro, V.F., Rossi, C. **276**, 432
- A statistical study of the distribution of stars in the $\log T_{\text{eff}} - \log g_N$ plane
Achmad, L., de Jager, C., Nieuwenhuijzen, H. **277**, 361 (**100**, 465)
- R 40: the first luminous blue variable in the Small Magellanic Cloud
Szeifert, T., Stahl, O., Wolf, B., Zickgraf, F.-J., Bouchet, P., Klare, G. **280**, 508
- A ROSAT observation of δ Orionis A
Haberl, F., White, N.E. **280**, 519
- (Stars:) supernovae: general**
- Formation of double neutron star systems and asymmetric supernova explosions
Yamaoka, H., Shigeyama, T., Nomoto, K. **267**, 433
- Efficiency of gravitational radiation from axisymmetric and 3 D stellar collapse. I. Polytropic case
Bonazzola, S., Marck, J.A. **267**, 623
- Does artificial viscosity destroy prompt type-II supernova explosions?
Janka, H.-T., Zwerger, T., Mönchmeyer, R. **268**, 360
- The rate of supernovae. I. The data base, the recipe and the uncertainties
Cappellaro, E., Turatto, M., Benetti, S., Tsvetkov, D.Y., Bartunov, O.S., Makarova, I.N. **268**, 472
- Light curve models for type Ia supernovae: physical assumptions, their influence and validity
Höflich, P., Müller, E., Khokhlov, A. **268**, 570
- Erratum: Stellar yields as a function of initial metallicity and mass limit for black hole formation
Maeder, A. **268**, 833
- On the photometric homogeneity of Type Ia Supernovae
Bravo, E., Domínguez, I., Isern, J., Canal, R., Höflich, P., Labay, J. **269**, 187
- Models for the early-time spectral evolution of the ‘standard’ type Ia supernova 1990 N
Mazzali, P.A., Lucy, L.B., Danziger, I.J., Gouiffes, C., Cappellaro, E., Turatto, M. **269**, 423
- Light curves of Type Ia supernova models with different explosion mechanisms
Khokhlov, A., Müller, E., Höflich, P. **270**, 223
- Hydrodynamic study of supernova 1987A: near the peak luminosity
Utrobin, V. **270**, 249
- The contribution of Type Ia supernovae to the galactic iron abundances
Bravo, E., Isern, J., Canal, R. **270**, 288
- Cosmic rays. I. The cosmic ray spectrum between 10^4 GeV and $3 \cdot 10^9$ GeV
Biermann, P.L. **271**, 649
- Analysis of NGC 1948 F6:4, a star in a young association of the LMC
Spite, F., Barbuy, B., Spite, M. **272**, 116
- Oscillating Urca process in mass-accreting white dwarfs
Aparicio, J.M., Isern, J. **272**, 446
- Massive stars as Galactic producers of ^{26}Al
Signore, M., Dupraz, C. **272**, 733 (**97**, 141)
- First results from COMPTEL measurement of the ^{26}Al 1.8 MeV gamma-ray line from the Galactic center region
Diehl, R., Bennett, K., Bloemen, H., deBoer, H., Busetta, M., Collmar, W., Connors, A., den Herder, J.W., de Vries, C., Hermesen, W., Knödlseder, J., Kuiper, L., Lichti, G.G., Lockwood, J., Macri, J., McConnell, M., Morris, D., Much, R., Ryan, J., Schönfelder, V., Simpson, G., Stacy, J.G., Steinle, H., Strong, A.W., Swanenburg, B.N., Varendorff, M., von Ballmoos, P. **272**, 735 (**97**, 181)
- Hard X-ray and gamma-rays from supernovae
Woosley, S.E. **272**, 736 (**97**, 205)
- An analysis of nuclear γ -ray line profiles from SN 1987 A
Grant, K.J., Dean, A.J. **272**, 736 (**97**, 211)
- Preliminary results from COMPTEL on a search for gamma-ray line emission from SN 1991 T
Lichti, G.G., Bennett, K., Bloemen, H., de Boer, H., Busetta, M., Collmar, W., Connors, A., Diehl, R., van Dijk, R., den Herder, J.W., Hermesen, W., Kuiper, L., Lockwood, J., Macri, J., McConnell, M., Morris, D., Much, R., Ryan, J., Schönfelder, V., Simpson, G., Stacy, J.G., Steinle, H., Strong, A.W., Swanenburg, B.N., Varendorff, M., de Vries, C., Winkler, C. **272**, 736 (**97**, 215)
- Gamma ray constraints on the Galactic supernova rate
Hartmann, D., The, L.-S., Clayton, D.D., Leising, M., Mathews, G., Woosley, S.E. **272**, 737 (**97**, 219)
- Gamma-ray light curves and spectra for SN Ia
Höflich, P., Müller, E., Khokhlov, A. **272**, 737 (**97**, 221)
- Theoretical prediction of gamma-rays from SN 1991 T
Shigeyama, T., Kumagai, S., Yamaoka, H., Nomoto, K., Thielemann, F.-K. **272**, 737 (**97**, 223)
- Non-equilibrium radiative transfer in supernova theory: models of linear type II supernovae
Blinnikov, S.I., Bartunov, O.S. **273**, 106
- Dynamic artificial opacity for flux limited diffusion in hydrodynamics
Dgani, R. **273**, 338
- The rate of supernovae. II. The selection effects and the frequencies per unit blue luminosity
Cappellaro, E., Turatto, M., Benetti, S., Tsvetkov, D.Y., Bartunov, O.S., Makarova, I.N. **273**, 383
- The alpha-effect due to supernova explosions
Kaisig, M., Rüdiger, G., Yorke, H.W. **274**, 757
- Analytic models for low-mass supernovae of type II
Blinnikov, S.I., Popov, D.V. **274**, 775

Cosmic rays. IV. The spectrum and chemical composition above 10^4 GeV

Stanev, T., Biermann, P.L., Gaisser, T.K. **274**, 902

Light curves of type II Supernovae. I. The atlas

Patat, F., Barbon, R., Cappellaro, E., Turatto, M. **274**, 1011 (**98**, 443)

The application of Monte Carlo methods to the synthesis of early-time supernovae spectra

Mazzali, P.A., Lucy, L.B. **279**, 447

(Stars:) supernovae: individual: . . .

SN 1987A

Viscous-thermal evolution of free accretion disks around new born neutron stars

Mineshige, S., Nomoto, K., Shigeyama, T. **267**, 95

TeV gamma ray burst from SN 1987 A

Apparao, K.M.V. **268**, 607

Hydrodynamic study of supernova 1987A: near the peak luminosity

Utrobin, V. **270**, 249

An analysis of nuclear γ -ray line profiles from SN 1987 A

Grant, K.J., Dean, A.J. **272**, 736 (**97**, 211)

Detection of ^{57}Co γ -rays from SN 1987 A and prospect of X-ray observations of the pulsar with ASUKA

Kumagai, S., Nomoto, K., Shigeyama, T., Hashimoto, M., Itoh, M. **273**, 153

Infrared photometry and spectrophotometry of SN 1987 A. II. November 1987 to March 1991 observations

Bouchet, P., Danziger, I.J. **273**, 451

X-ray emission from the collision of the ejecta with the ring nebula around SN 1987A

Suzuki, T., Shigeyama, T., Nomoto, K. **274**, 883

Evolution of SN 1987 A in the ultraviolet

Sanz Fernández de Córdoba, L. **276**, 103

The O I-Ly β fluorescence revisited and its implications on the clumping of hydrogen, O/H mixing and the pre-SN oxygen abundance in SN 1987A

Oliva, E. **276**, 415

Adaptive filtering in astronomical image processing. I. Basic considerations and examples

Lorenz, H., Richter, G.M., Capaccioli, M., Longo, G. **277**, 321

SN 1990N

Models for the early-time spectral evolution of the 'standard' type Ia supernova 1990 N

Mazzali, P.A., Lucy, L.B., Danziger, I.J., Gouffes, C., Cappellaro, E., Turatto, M. **269**, 423

SN 1991T

Preliminary results from COMPTEL on a search for gamma-ray line emission from SN 1991 T

Lichti, G.G., Bennett, K., Bloemen, H., de Boer, H., Busetta, M., Collmar, W., Connors, A., Diehl, R., van Dijk, R., den Herder, J.W., Hermesen, W., Kuiper, L., Lockwood, J., Macri, J., McConnell, M., Morris, D., Much, R., Ryan, J., Schönfelder, V., Simpson, G., Stacy, J.G., Steinle, H., Strong, A.W., Swanenburg, B.N., Varendorff, M., de Vries, C., Winkler, C. **272**, 736 (**97**, 215)

Theoretical prediction of gamma-rays from SN 1991 T

Shigeyama, T., Kumagai, S., Yamaoka, H., Nomoto, K., Thielemann, F.-K. **272**, 737 (**97**, 223)

SN 1993J

SN 1993J: explosion of a massive cool supergiant with a small envelope mass?

Höflich, P., Langer, N., Duschinger, M. **275**, L29

Interstellar and intergalactic gas in the direction of SN 1993J in M 81

Vladilo G., Centurión, M., de Boer, K.S., King, D.L., Lipman, K., Stegert, J., Unger, S.W., Walton, N.A. **280**, L11

Intergalactic and galactic clouds on the line of sight to SN 1993J in M 81 seen in IUE spectra

de Boer, K.S., Rodríguez Pascual, P., Wamsteker, W., Sonneborn, G., Fransson, C., Bomans, D.J., Kirshner, R.P. **280**, L15

(Stars: variables:) Cepheids

On the period history of the β Cephei star BW Vulpeculae

Sterken, C. **270**, 259

Studies of Cepheid-type variability. XI. Are some BL Herculis variables overtone pulsators?

Petersen, J.O. **272**, 217

Erratum: The calibration of Strömgren photometry for A, F and early G supergiants. III. The A and early F supergiants

Gray, R.O. **273**, 349

On the difficulty of determining the color-term in the Cepheid PLC relation

Fouqué, P., Gieren, W.P. **275**, 213

Nonequilibrium effects of gas and radiation on Cepheids

Yan Li **276**, 357

On the irregular light variation of RU Camelopardalis

Kolláth, Z., Szeidl, B. **277**, 62

On the spectrum of the linear nonadiabatic radial stellar modes

Glasner, A., Buchler, J.R. **277**, 69

Atmospheric motions in classical Cepheid stars. I. The star of reference: δ Cephei

Breißellner, M.G., Gillet, D. **277**, 524

Atmospheric motions in classical Cepheid stars. II. The pre-resonance Cepheids: η Aquilae, S Sagittae

Breißellner, M.G., Gillet, D. **277**, 541

Atmospheric motions in classical Cepheid stars. III. A very large amplitude star: X Cygni

Breißellner, M.G., Gillet, D. **277**, 553

Nonlinear models of first overtone mode Cepheids

Antonello, E., Aikawa, T. **279**, 119

The asymmetry parameter $M-m$ of the light curves of Cepheids in the Galaxy and Magellanic Clouds

Antonello, E. **279**, 125

Study of the Population II Cepheid AU Pegasi

Vinkó, J., Szabados, L., Szatmáry, K. **279**, 410

Photoelectric photometry of field variables. II

Piersimoni, A.M., Di Paolantonio, A., Burchi, R., De Santis, R. **279**, 681 (**101**, 195)

Stars: variables: other

The central stars of He 2-131 and He 2-138: photometric variations

Hutton, R.G., Méndez, R.H. **267**, L8

A new pulsating PG 1159 white dwarf RXJ 2117.1+3412

Vauclair, G., Belmonte, J.A., Pfeiffer, B., Chevreton, M., Dolez, N., Motch, C., Werner, K., Pakull, M.W. **267**, L35

Photometry of yellow semiregular variables: AC Herculis, R Sagittae and V Vulpeculae

Zsoldos, E. **268**, 149

Spectrophotometric behavior of 56 Arietis

Stępień, K., Czechowski, W. **268**, 187

- The spectral variability of DR Tauri
Guenther, E., Hessman, F.V. **268**, 192
- A re-analysis of the period shifts in RR Lyrae stars
Fernley, J.A. **268**, 591
- Fourier analysis of spotted star light curves as a tool to detect stellar differential rotation
Lanza, A.F., Rodonò, M., Zappalà, R.A. **269**, 351
- Radiative energy flux changes of Pleione in the far-UV through the Be-shell \rightarrow Be transition
Doazan, V., de la Fuente, A., Barylak, M., Cramer, N., Mauron, N. **269**, 415
- Linear analysis of RV Tauri stars: the resonance hypothesis
Tuchman, Y., Lèbre, A., Mennessier, M.O., Yarri, A. **271**, 501
- Studies of Cepheid-type variability. XI. Are some BL Herculis variables overtone pulsators?
Petersen, J.O. **272**, 217
- Globular-cluster red giants as a probe of horizontal branch luminosities
Castellani, V., Degl'Innocenti, S., Luridiana, V. **272**, 442
- The Ga II lines in the red spectrum of Ap stars
Lanz, T., Artru, M.-C., Didelon, P., Mathys, G. **272**, 465
- X-ray variability of galactic black hole candidates
Mereghetti, S. **272**, 738 (**97**, 249)
- Three known and twenty-two new variable stars of early spectral type
Jerzykiewicz, M. **272**, 748 (**97**, 421)
- Light variability of some CP Si stars
Catalano, F.A., Leone, F. **272**, 749 (**97**, 501)
- Oxygen-rich late-type star lightcurves in the 1–20 μ m range
Le Bertre, T. **272**, 751 (**97**, 729)
- Infrared photometry and radial velocities of field RR Lyraes
Fernley, J.A., Skillen, I., Burki, G. **272**, 753 (**97**, 815)
- On the cause of luminosity-colour variation in the active binary system DH Leonis
Aslan, Z. **273**, L47
- Third supplement to the catalogue of observed periods of Ap stars
Catalano, F.A., Renson, P., Leone, F. **273**, 354 (**98**, 269)
- Photoelectric photometry of the β Cephei star BW Vulpeculae (1988–1991)
Sterken, C., Pigulski, A., Liu Zongli **273**, 355 (**98**, 383)
- A possible cause for the variations in the “underlying” absorption-line profiles in the spectrum of P Cygni
Markova, N. **273**, 555
- Periodic spectral variations of δ^1 Orionis C
Stahl, O., Wolf, B., Gäng, T., Gummersbach, C.A., Kaufer, A., Kovacs, J., Mandel, H., Szeifert, T. **274**, L29
- Prospects of stellar variability using a CCD: the discovery of a new W Ursae Majoris system in the open cluster NGC 6802
Vidal, I., Belmonte, J.A. **274**, 265
- The light-time effect as the cause of period changes in β Cephei stars. III. BW Vulpeculae
Pigulski, A. **274**, 269
- UBVR polarimetry of the peculiar R CrB star V 854 Centauri
Rao, N.K., Raveendran, A.V. **274**, 330
- UV spectral variability in the Herbig Ae star HR 5999. XI. The accretion interpretation
Pérez, M.R., Grady, C.A., Thé, P.S. **274**, 381
- Clues to the structure of the boundary layer in cataclysmic variables from observations of the flickering
Bruch, A., Duschl, W.J. **275**, 219
- The double-mode semiregular variable UU Herculis: 1990–1992 photometry
Zsoldos, E., Fernie, J.D., Arellano Ferro, A., Seager, S. **275**, 484
- Variable redshifted He I absorption lines in BM Andromedae
Guenther, E., Hessman, F.V. **276**, L25
- An atlas of theoretical constraints for horizontal branch stars
Caputo, F., De Rinaldis, A., Manteiga, M., Pulone, L., Quarta, M.L. **276**, 41
- On the mass of type-c RR Lyrae variables in globular clusters
Cacciari, C., Bruzzi, A. **276**, 87
- The light variations of some southern CP2 stars
Catalano, F.A., Leone, F. **276**, 328 (**100**, 319)
- BV photometry and H α spectroscopy of the RS Canum Venaticorum binary V711 Tauri
Mohin, S., Raveendran, A.V. **276**, 329 (**100**, 331)
- The importance of surface inhomogeneities for K and M dwarf chromospheric fluxes
Panagi, P.M., Mathioudakis, M. **276**, 329 (**100**, 343)
- A decade of photometric observations of young stars – with special comments on periodicities
Gahm, G.F., Gullbring, E., Fischerström, C., Lindroos, K.P., Lodén, K. **276**, 329 (**100**, 371)
- A decade of photometry of LQ Hydrae
Jetsu, L. **276**, 345
- On the spectrum of the linear nonadiabatic radial stellar modes
Glasner, A., Buchler, J.R. **277**, 69
- BV photometry and H α spectroscopy of the RS Canum Venaticorum binary II Pegasi
Mohin, S., Raveendran, A.V. **277**, 155
- Low amplitude variability and transient periodicity in FF Andromedae and other active stars
Peres, G., Ventura, R., Pagano, I., Rodonò, M. **278**, 179
- Spot and flare activity of FK Comae Berenices: long-term photometry
Jetsu, L., Pelt, J., Tuominen, I. **278**, 449
- A new tool to study wave propagation: the Van Hoof effect
Mathias, P., Gillet, D. **278**, 511
- Spectrophotometry of peculiar B and A stars. XIX. Variability of the magnetic CP stars
Adelman, S.J., Pyper, D.M. **279**, 337 (**101**, 393)
- Non-linear, non-radial, isentropic oscillations of stars: third-order coupled-mode equations
Van Hoolst, T., Smeyers, P. **279**, 417
- The circumstellar gleam from the T Tauri star RY Lupi
Gahm, G.F., Liseau, R., Gullbring, E., Hartstein, D. **279**, 477
- Monitoring OH/IR stars at the Galactic centre with the VLA
Van Langevelde, H.J., Janssens, A.M., Goss, W.M., Habing, H.J., Winnberg, A. **279**, 680 (**101**, 109)
- Photoelectric photometry of field variables. II
Piersimoni, A.M., Di Paolantonio, A., Burchi, R., De Santis, R. **279**, 681 (**101**, 195)
- V 487 Cassiopeiae (HD 6474): a UU Herculis variable in the galactic plane?
Zsoldos, E. **280**, 177
- Long-term photometry of variables at ESO. II. The second data catalogue (1986–1990)
Sterken, C., Manfroid, J., Anton, K., Barzowski, A., Bibo, A., Bruch, A., Burger, M., Duerbeck, H.W., Duemmler, R., Heck, A., Hensberge, H., Hiesgen, M., Inklaar, F., Jorissen, A., Juettner, A., Kinkel, U., Liu Zongli, Mekkadon, M.V., Ng, Y.K., Niarchos, P., Püttmann, M., Szeifert, T., Spiller, F., van Dijk, R., Vogt, N., Wanders, I. **280**, 344 (**102**, 79)
- Long-term monitoring of active stars. III. UBVR (RI)_c photometry of 14 southern hemisphere variables
Cutispoto, G. **280**, 350 (**102**, 655)
- R 40: the first luminous blue variable in the Small Magellanic Cloud
Szeifert, T., Stahl, O., Wolf, B., Zickgraf, F.-J., Bouchet, P., Klare, G. **280**, 508

(Stars: variables:) δ Sct

FM Comae (= HR 4684) revisited

Paparo, M., Pena, J., Peniche, R., İbanoğlu, C., Tunca, Z., Evren, S. **268**, 123

Seismology of δ Scuti stars – GX Pegasi

Goupil, M.J., Michel, E., Lebreton, Y., Baglin, A. **268**, 546

A spectroscopic search for nonradial pulsations in the δ Scuti stars δ Delphini and ϵ Cephei

Baade, D., Bardelli, S., Beaulieu, J.P., Vogel, S. **269**, 195

Nonradial pulsation of the δ Scuti star BU Cancri in the Praesepe cluster

Breger, M., Stich, J., Garrido, R., Martin, B., Jiang Shi-yang, Li Zhi-ping, Hube, D.P., Ostermann, W., Paparo, M., Scheck, M. **271**, 482

Simultaneous *uvby* photometry of 28 Andromedae

Rodríguez, E., Rolland, A., López de Coca, P., Garrido, R., Mendoza, E.E. **273**, 473

The period analysis of HD 93044 and its amplitude variations

Liu Zong-Li **274**, 220

Pulsational behaviours of the δ Scuti stars HD 18878 and HD 19279

Mantegazza, L., Poretti, E. **274**, 811

Simultaneous *uvby* photometry of SX Phoenicis stars

Rodríguez, E., Rolland, A., López de Coca, P. **277**, 363 (**100**, 571)

Pulsational behaviour of 44 Tauri

Akan, M.C. **278**, 150

Simultaneous *uvby* photometry of GP Andromedae

Rodríguez, E., Rolland, A., López de Coca, P. **279**, 338 (**101**, 421)

(Stars:) white dwarfs

PG 0824+289: a dwarf carbon star with a visible white dwarf companion

Heber, U., Bade, N., Jordan, S., Voges, W. **267**, L31

A new pulsating PG 1159 white dwarf RXJ 2117.1+3412

Vauclair, G., Belmonte, J.A., Pfeiffer, B., Chevreton, M., Dolez, N., Motch, C., Werner, K., Pakull, M.W. **267**, L35

A 59^m photometric period in the dwarf nova V 485 Centauri

Augustejn, T., van Kerwijk, M.H., van Paradijs, J. **267**, L55

On the formation rate and space density of close white dwarf main-sequence star binaries

de Kool, M., Ritter, H. **267**, 397

Short optical bursts and acceleration to TeV energies in AE Aquarii

de Jager, O.C., Meintjes, P.J. **268**, L1

A new PG 1159 star discovered in the ROSAT XRT all sky survey:

NLTE analysis of X-ray and optical spectra

Motch, C., Werner, K., Pakull, M.W. **268**, 561

Hydrogen and helium shell flashes on massive accreting white dwarfs

José, J., Hernanz, M., Isern, J. **269**, 291

Discovery of a variable super soft X-ray source in the Large Magellanic Cloud during the ROSAT All-Sky Survey

Schaeidt, S., Hasinger, G., Trümper, J. **270**, L9

The nature of the X-ray spectrum of VW Hydri

van Teeseling, A., Verbunt, F., Heise, J. **270**, 159

Oscillating Urca process in mass-accreting white dwarfs

Aparicio, J.M., Isern, J. **272**, 446

A model for TeV gamma-ray emission from AM Herculis

Kaul, C.L., Kaul, R.K., Bhat, C.L. **272**, 501

HS 0209+0832: a DAB white dwarf with a temperature fitting into the DB gap

Jordan, S., Heber, U., Engels, D., Koester, D. **273**, L27

An accretion induced collapse model for the eclipsing binary pulsar PSR 1718-19

Ergma, E. **273**, L38

Detection of two new supersoft X-ray sources in the Large Magellanic Cloud

Orio, M., Ögelman, H. **273**, L56

Erratum: The nature of the F str λ 4077 stars. IV. Search for white dwarfs around barium dwarfs

North, P., Lanz, T. **273**, 720

Erratum: The nature of the X-ray spectrum of VW Hydri

van Teeseling, A., Verbunt, F., Heise, J. **273**, 721

The ROSAT detection of RS Ophiuchi at quiescence

Orio, M. **274**, L41

The Hyades distance and white dwarf constraints

Weidemann, V. **275**, 158

Spectroscopic identification of white dwarfs in galactic clusters. VI.

Three new white dwarfs in NGC 3532

Koester, D., Reimers, D. **275**, 479

Optical spectroscopy and photometry of the companion of the bright millisecond pulsar J 0437-4715

Danziger, I.J., Baade, D., Della Valle, M. **276**, 382

Spectroscopic and photometric behaviour of Nova Cygni 1992 in the first nine months following outburst

Chochol, D., Hric, L., Urban, Z., Komžík, R., Grygar, J., Papoušek, J. **277**, 103

Optical/UV counterpart of the supersoft transient X-ray source RX J0513.9-6951 in the Large Magellanic Cloud

Pakull, M.W., Motch, C., Bianchi, L., Thomas, H.-C., Guibert, J., Beaulieu, J.P., Grison, P., Schaeidt, S. **278**, L39

Analysis of the DA white dwarf HZ 43 A and its companion star

Napiwotzki, R., Barstow, M.A., Fleming, T., Holweger, H., Jordan, S., Werner, K. **278**, 478

Collisions between a white dwarf and a main-sequence star. III. Simulations including the white dwarf surface

Ruffert, M. **280**, L41

Temperature structure of a particle-heated magnetic atmosphere

Woelk, U., Beuermann, K. **280**, 169

The role of the secondary's rotation in disc formation and structure: an SPH three-dimensional analysis

Belvedere, G., Lanzafame, G., Molteni, D. **280**, 525

Sun: UV radiation

UV prominences observed with the HRTS: structure and physical properties

Wiik, J.E., Dere, K., Schmieder, B. **273**, 267

Two-dimensional radiative transfer with partial frequency redistribution. II. Application to resonance lines in quiescent prominences

Paletou, F., Vial, J.C., Auer, L.H. **274**, 571

Spectral lines from source regions of the solar wind: the OVI resonance doublet

Spadaro, D., Ventura, R. **276**, 571

Sun: X-rays, gamma rays

The importance of plasma viscosity on X-ray line diagnostics of solar flares

Peres, G., Reale, F. **267**, 566

Dynamics of flaring loops. III. Interpretation of flare evolution in the emission measure-temperature diagram

Sylwester, B., Sylwester, J., Serio, S., Reale, F., Bentley, R.D., Fludra, A. **267**, 586

Overview of the first results from EGRET

Fichtel, C.E., Bertsch, D.L., Hartman, R.C., Hunter, S.D., Kanbach, G., Kniffen, D.A., Kwok, P.W., Lin, Y.C., Mattox, J.R., Mayer-Hasselwander, H.A., Michelson, P.F., von Montigny, C., Nolan, P.L., Pinkau, K., Roethermel, H., Schneid, E.J., Sommer, M., Sreekumar, P., Thompson, D.J. **272**, 725 (**97**, 13)

Preliminary results from the High Resolution Gamma-ray and hard X-ray Spectrometer (HIREGS) long duration balloon flight in Antarctica

Feffer, P.T., Lin, R.P., Smith, D.M., Hurley, K.C., Kane, S.R., McBride, S., Primbsch, J.H., Youssefi, K., Zimmer, G., Pelling, R.M., Cotin, F., Lavigne, J.M., Rouaix, G., Slassi, S., Vedrenne, G., Pehl, R., Cork, C., Luke, P., Madden, N., Malone, D. **272**, 726 (97, 31)

Temporal and spectral characteristics of the June 11, 1991 gamma-ray flare

Trottet, G., Vilmer, N., Barat, C., Dezalay, J.P., Talon, R., Sunyaev, R., Kuznetsov, A., Terekhov, O. **272**, 743 (97, 337)

Search for gamma-ray transients using the SMM spectrometer

Share, G.H., Harris, M.J., Leising, M.D., Messina, D.C. **272**, 744 (97, 341)

Spectral characteristics of high energy gamma-ray solar flares

Leikov, N.G., Akimov, V.V., Volzhenskaya, V.A., Kalinkin, L.F., Nesterov, V.E., Galper, A.M., Zemskov, V.M., Oserov, Y.V., Topchiev, N.P., Fradkin, M.I., Tchuikin, E.I., Tugaenko, V.Y., Gros, M., Grenier, I.A., Bazer-Bachi, A.R., Lavigne, J.M., Olive, J.F. **272**, 744 (97, 345)

Detection of a long-duration solar gamma-ray flare on June 11, 1991 with EGRET on COMPTON-GRO

Kanbach, G., Bertsch, D.L., Fichtel, C.E., Hartman, R.C., Hunter, S.D., Kniffen, D.A., Kwok, P.W., Lin, Y.C., Mattox, J.R., Mayer-Hasselwander, H.A., Michelson, P.F., von Montigny, C., Nolan, P.L., Pinkau, K., Rothermel, H., Schneid, E., Sommer, M., Sreekumar, P., Thompson, D.J. **272**, 744 (97, 349)

Detectability of chromospheric evaporation fronts in solar flares

Peres, G., Reale, F. **275**, L13

A study of the evolution of electron and ion acceleration during the 09:09 UT solar flare on 1989 September 9

Chupp, E.L., Trottet, G., Marschhäuser, H., Pick, M., Soru-Escut, I., Rieger, E., Dunphy, P.P. **275**, 602

Sun: abundances

A revision of the solar abundance of dysprosium

Grevesse, N., Noels, A., Sauval, A.J. **271**, 587

Temporal and spectral characteristics of the June 11, 1991 gamma-ray flare

Trottet, G., Vilmer, N., Barat, C., Dezalay, J.P., Talon, R., Sunyaev, R., Kuznetsov, A., Terekhov, O. **272**, 743 (97, 337)

Radiative lifetime measurements in Dy II and the solar abundance of dysprosium

Biémont, E., Lowe, R.M. **273**, 665

Ti-II transition probabilities and radiative lifetimes in Ti^{+} and the solar titanium abundance

Bizzarri, A., Huber, M.C.E., Noels, A., Grevesse, N., Bergeson, S.D., Tsekeris, P., Lawler, J.E. **273**, 707

The 777 nm oxygen triplet in the Sun and solar-type stars, and its use for abundance analysis

Kiselman, D. **275**, 269

$\Delta n \leq 2$ allowed transitions in neutral sulphur within the visible and infrared spectral ranges

Biémont, E., Quinet, P., Zeippen, C.J. **280**, 348 (102, 435)

Standard solar model: interplay between the equation of state, the opacity and the determination of the initial helium content

Charbonnel, C., Lebreton, Y. **280**, 666

Sun: activity

Are sunspot penumbrae deep or shallow?

Solanki, S.K., Schmidt, H.U. **267**, 287

Relations between the photospheric magnetic field and the emission from the outer atmosphere of cool stars. III. The chromospheric emission from individual flux tubes

Schrijver, C.J. **269**, 395

Spectral observations of active region sources with RATAN-600 and WSRT

Alissandrakis, C.E., Gelfreikh, G.B., Borovik, V.N., Korzhavin, A.N., Bogod, V.M., Nindos, A., Kundu, M.R. **270**, 509

Helicity fluctuations in mean field theory: an explanation for the variability of the solar cycle?

Hoyng, P. **272**, 321

Evidence for magnetic reconnection in large-scale magnetic structures in solar flares

Mandrini, C.H., Rovira, M.G., Démoulin, P., Hénoux, J.C., Machado, M.E., Wilkinson, L.K. **272**, 609

Evidence for a shock front in a flare loop of June 20, 1989

Graeter, M. **273**, 354 (98, 261)

On the asymmetry of solar activity

Carbonell, M., Oliver, R., Ballester, J.L. **274**, 497

The distribution of sunspot decay rates

Martínez Pillet, V., Moreno-Inseris, F., Vázquez, M. **274**, 521

Distribution of magnetic energy in $\alpha\Omega$ -dynamoes. III. A localized solar dynamo

van Geffen, J.H.G.M. **274**, 534

Solar dynamics over solar cycle 21 using sunspots as tracers. I. Sunspot rotation

Nesme-Ribes, E., Ferreira, E.N., Mein, P. **274**, 563

A study of the evolution of electron and ion acceleration during the 09:09 UT solar flare on 1989 September 9

Chupp, E.L., Trottet, G., Marschhäuser, H., Pick, M., Soru-Escut, I., Rieger, E., Dunphy, P.P. **275**, 602

Evolution, activity, magnetic fields, line-of-sight and proper motions in the solar active region NOAA 6659 (June 3–16, 1991)

Bumba, V., Klváňa, M., Kálmán, B., Györi, L. **276**, 193

Solar dynamics over solar cycle 21 using sunspots as tracers. II. Meridional motions and covariance

Nesme-Ribes, E., Ferreira, E.N., Vince, I. **276**, 211

The solar sunspot cycle in the Maunder minimum AD 1645 to AD 1715

Ribes, J.C., Nesme-Ribes, E. **276**, 549

Quasi-biennial oscillation in green corona activity and Earth's rotation

Djurovic, D., Pâquet, P. **277**, 669

Evidence for siphon flows with shocks in solar magnetic flux tubes

Degenhardt, D., Solanki, S.K., Montesinos, B., Thomas, J.H. **279**, L29

Polarimetry and spectroscopy of a simple sunspot. II. On the height and temperature dependence of the magnetic field

Balthasar, H., Schmidt, W. **279**, 243

Modeling of integrated sunlight velocity measurements: the effect of surface darkening by magnetic fields

Ulrich, R.K., Henney, C.J., Schimpf, S., Fossat, E., Gelly, B., Grec, G., Loudagh, S., Schmider, F.X., Pallé, P., Regulo, C., Roca Cortés, T., Sanchez, L. **280**, 268

On solar activity and the solar cycle. A new analysis of the Butterfly Diagram

Mouradian, Z., Soru-Escut, I. **280**, 661

Sun: atmosphere

The formation of helioseismology lines. IV. The Ni I 676.8 nm intercombination line

Bruls, J.H.M.J. **269**, 509

On the propagation of ideal, linear Alfvén waves in radially stratified stellar atmospheres and winds

Velli, M. **270**, 304

Multiplet oscillator strengths for excited atomic magnesium

Hoang-Binh, D. **272**, 752 (97, 769)

The chromospheric temperature rise in solar magnetic flux tubes

Bruls, J.H.M.J., Solanki, S.K. **273**, 293

On the interactions of hydrodynamic shock waves in stellar atmospheres

Fleck, B., Schmitz, F. **273**, 671

The contribution of ion-atom radiative collisions to the opacity of the solar atmosphere

Mihajlov, A.A., Dimitrijević, M.S., Ignjatović, L.M. **276**, 187

On the origin of penumbral line asymmetries

Degenhardt, D. **277**, 235

Stark broadening theory of solar Rydberg lines in the far-infrared spectrum

Van Regemorter, H., Hoang-Binh, D. **277**, 623

Sun: chromosphere

Relations between the photospheric magnetic field and the emission from the outer atmosphere of cool stars. III. The chromospheric emission from individual flux tubes

Schrijver, C.J. **269**, 395

The fine structure of a chromospheric rosette

Tsiropoula, G., Alissandrakis, C.E., Schmieder, B. **271**, 574

The chromospheric temperature rise in solar magnetic flux tubes

Bruls, J.H.M.J., Solanki, S.K. **273**, 293

On the interactions of hydrodynamic shock waves in stellar atmospheres

Fleck, B., Schmitz, F. **273**, 671

Oscillations of the Sun's chromosphere. VI. K grains, resonances, and gravity waves

Kneer, F., von Uexküll, M. **274**, 584

Diagnostics of non-thermal processes in chromospheric flares. I. H α and CaII K line profiles of an atmosphere bombarded by 10–500 keV electrons

Fang, C., Hénoux, J.C., Gan, W.Q. **274**, 917

Diagnostics of non-thermal processes in chromospheric flares. II. H α and CaII K line profiles for an atmosphere bombarded by 100 keV–1 MeV protons

Hénoux, J.C., Fang, C., Gan, W.Q. **274**, 923

A new determination of the mean lifetime of bright and dark chromospheric mottles

Bratsolis, E., Dialetis, D., Alissandrakis, C.E. **274**, 940

Detectability of chromospheric evaporation fronts in solar flares

Peres, G., Reale, F. **275**, L13

MHD equilibria with flows in uniform gravity. II. A class of exact 2-D loop-like solutions

Tsinganos, K., Surlantzis, G., Priest, E.R. **275**, 613

The contribution of ion-atom radiative collisions to the opacity of the solar atmosphere

Mihajlov, A.A., Dimitrijević, M.S., Ignjatović, L.M. **276**, 187

Phases and amplitudes of acoustic-gravity waves. II. The effects of reflection

Marmolino, C., Severino, G., Deubner, F.-L., Fleck, B. **278**, 617

Sun: corona

The importance of plasma viscosity on X-ray line diagnostics of solar flares

Peres, G., Reale, F. **267**, 566

Reconstruction of coronal magnetic configurations: the case of strongly nonlinear force-free fields

Cuperman, S., Bruma, C., Zoler, D., Semel, M. **270**, 480

UV prominences observed with the HRTS: structure and physical properties

Wiik, J.E., Dere, K., Schmieder, B. **273**, 267

Magnetohydrodynamic waves in a potential coronal arcade

Oliver, R., Ballester, J.L., Hood, A.W., Priest, E.R. **273**, 647

An equivalent-circuit representation of Alfvén waves

Narain, U., Kumar, S. **273**, 659

Detectability of chromospheric evaporation fronts in solar flares

Peres, G., Reale, F. **275**, L13

The solar F-corona at 2.12 μ m: calculations of near-solar dust in comparison to 1991 eclipse observations

Mann, I., MacQueen, R.M. **275**, 293

MHD equilibria with flows in uniform gravity. II. A class of exact 2-D loop-like solutions

Tsinganos, K., Surlantzis, G., Priest, E.R. **275**, 613

Spectral lines from source regions of the solar wind: the OVI resonance doublet

Spadaro, D., Ventura, R. **276**, 571

Equilibrium and stability of coronal force-free magnetic field configurations: the case of one ignorable variable

Bruma, C., Cuperman, S. **278**, 589

On the radio wave group delay in the solar corona for the case of decimeter type III bursts

Itkina, M.A., Levin, B.N., Tsybko, Y.G. **279**, 235

The continuous Alfvén spectrum of line-tied coronal loops

Halberstadt, G., Goedbloed, J.P. **280**, 647

Sun: faculae, plagues

High spatial resolution spectro-polarimetry of small-scale magnetic elements on the Sun

Amer, M.A., Kneer, F. **273**, 304

Sun: filaments

Two-dimensional radiative transfer with partial frequency redistribution. II. Application to resonance lines in quiescent prominences

Paletou, F., Vial, J.C., Auer, L.H. **274**, 571

Sun: flares

The saturation of fast dynamic magnetic reconnection

Craig, I.J.D., Henton, S.M., Rickard, G.J. **267**, L39

The importance of plasma viscosity on X-ray line diagnostics of solar flares

Peres, G., Reale, F. **267**, 566

Dynamics of flaring loops. III. Interpretation of flare evolution in the emission measure-temperature diagram

Sylwester, B., Sylwester, J., Serio, S., Reale, F., Bentley, R.D., Fludra, A. **267**, 586

Physical parameter fields of the post-flare loop system on February 18, 1984

Li, K.J., Ding, Y.J., Gu, X.M., Li, Q.S., Zhong, S.H., Li, Q.Y. **269**, 496

Evidence for magnetic reconnection in solar flares

Démoulin, P., van Driel-Gesztelyi, L., Schmieder, B., Hénoux, J.C., Csepura, G., Hagyard, M.J. **271**, 292

An extended correlation between the Balmer and soft X-ray emission from solar and stellar flares

Butler, C.J. **272**, 507

Evidence for magnetic reconnection in large-scale magnetic structures in solar flares

Mandrini, C.H., Rovira, M.G., Démoulin, P., Hénoux, J.C., Machado, M.E., Wilkinson, L.K. **272**, 609

Temporal and spectral characteristics of the June 11, 1991 gamma-ray flare

Trottet, G., Vilmer, N., Barat, C., Dezalay, J.P., Talon, R., Sunyaev, R., Kuznetsov, A., Terekhov, O. **272**, 743 (97, 337)

Search for gamma-ray transients using the SMM spectrometer

Share, G.H., Harris, M.J., Leising, M.D., Messina, D.C. **272**, 744 (97, 341)

Evidence for a shock front in a flare loop of June 20, 1989

Graeter, M. **273**, 354 (98, 261)

The bandwidth of millisecond radio spikes in solar flares

Csillaghy, A., Benz, A.O. **274**, 487

Diagnostics of non-thermal processes in chromospheric flares. I. H α and CaII K line profiles of an atmosphere bombarded by 10–500 keV electrons

Fang, C., Hénoux, J.C., Gan, W.Q. **274**, 917

Diagnostics of non-thermal processes in chromospheric flares. II. H α and CaII K line profiles for an atmosphere bombarded by 100 keV–1 MeV protons

Hénoux, J.C., Fang, C., Gan, W.Q. **274**, 923

Detectability of chromospheric evaporation fronts in solar flares

Peres, G., Reale, F. **275**, L13

A study of the evolution of electron and ion acceleration during the 09:09 UT solar flare on 1989 September 9

Chupp, E.L., Trottet, G., Marschhäuser, H., Pick, M., Soru-Escut, I., Rieger, E., Dunphy, P.P. **275**, 602

Dynamic spectra of radio sources from 4.5 to 5.0 GHz

Lecacheux, A., Rosolen, C., Davis, M., Bookbinder, J., Bastian, T.S., Dulk, G.A. **275**, 670

Evolution, activity, magnetic fields, line-of-sight and proper motions in the solar active region NOAA 6659 (June 3–16, 1991)

Bumba, V., Klváňa, M., Kálmán, B., Györi, L. **276**, 193

Electron acceleration due to beam flux increase in a converging magnetic field

Karlický, M., Hénoux, J.C. **278**, 627

Current-sheet formation in two-dimensional coronal fields

Billinghurst, M.N., Craig, I.J.D., Sneyd, A.D. **279**, 589

Sun: fundamental parameters

In search of real solar twins. III.

Friel, E., Cayrel de Strobel, G., Chmielewski, Y., Spite, M., Lèbre, A., Bentolila, C. **274**, 825

Standard solar model: interplay between the equation of state, the opacity and the determination of the initial helium content

Charbonnel, C., Lebreton, Y. **280**, 666

Sun: general

Line-of-sight velocity measurements using a dissector-tube. I. An instrument description

Druzhinin, S.A., Pevtsov, A.A. **272**, 378

Isoplanatism and high spatial resolution solar imaging

Irbah, A., Borgnino, J., Laclare, F., Merlin, G. **276**, 663

Fourier versus wavelet analysis of solar diameter variability

Vigouroux, A., Delache, P. **278**, 607

Experimental campaign of solar observation in 1991 with the ROA astrolabe (Text in French)

Sánchez, M., Moreno, F., Parra, F., Soler, M. **280**, 333

Observations of the Sun during 1990–1992 with the astrolabe of Santiago

Noël, F. **280**, 343 (102, 11)

Sun: granulation

Speckle imaging of solar small-scale structure. I. Methods

von der Lühe, O. **268**, 374

Centre-to-limb variation of the Stokes V asymmetry in solar magnetic flux tubes

Bünte, M., Solanki, S.K., Steiner, O. **268**, 736

The formation of helioseismology lines. IV. The Ni I 676.8 nm intercombination line

Bruls, J.H.M.J. **269**, 509

Dynamics of the solar granulation: coherence of line parameters and their variation with the height

Hansmeier, A., Nesis, A., Mattig, W. **270**, 516

Turbulent power spectra of solar granulation

Espagnet, O., Muller, R., Roudier, T., Mein, N. **271**, 589

The fine structure of solar granulation and its relationship to large-scale photospheric structures

Abdussamatov, H.I. **272**, 580

Random velocity field corrections of the f -mode. I. Horizontal flows

Murawski, K., Roberts, B. **272**, 595

Random velocity field corrections of the f -mode. II. Vertical and horizontal flow

Murawski, K., Roberts, B. **272**, 601

A study of the asymmetry of Fe I lines in the solar spectrum

Stathopoulou, M., Alissandrakis, C.E. **274**, 555

The 777 nm oxygen triplet in the Sun and solar-type stars, and its use for abundance analysis

Kiselman, D. **275**, 269

Results from two-dimensional spectroscopic observations of solar granulation with a Fabry-Perot interferometer

Bendlin, C., Volkmer, R. **278**, 601

Random velocity field corrections to the f -mode. III. A photospheric random flow and chromospheric magnetic field

Murawski, K., Goossens, M. **279**, 225

Dynamics of the solar granulation. II. A quantitative approach

Nesis, A., Hansmeier, A., Hammer, R., Komm, R., Mattig, W., Staiger, J. **279**, 599

Sun: interior

Standard solar models with CESAM code: neutrinos and helioseismology

Berthomieu, G., Provost, J., Morel, P., Lebreton, Y. **268**, 775

Filtering of gravity waves

Schatzman, E. **271**, L29

Solar neutrinos and nuclear reactions in the solar interior

Castellani, V., Degl'Innocenti, S., Fiorentini, G. **271**, 601

A preprocessing strategy for helioseismic inversions

Christensen-Dalsgaard, J., Thompson, M.J. **272**, L1

Damping of solar p -mode oscillations. I. Radial modes with eddy viscosity

Stix, M., Rüdiger, G., Knölker, M., Grabowski, U. **272**, 340

Transport of angular momentum and diffusion by the action of internal waves

Schatzman, E. **279**, 431

Standard solar model: interplay between the equation of state, the opacity and the determination of the initial helium content

Charbonnel, C., Lebreton, Y. **280**, 666

Sun: magnetic fields

The saturation of fast dynamic magnetic reconnection

Craig, I.J.D., Henton, S.M., Rickard, G.J. **267**, L39

Are sunspot penumbrae deep or shallow?

Solanki, S.K., Schmidt, H.U. **267**, 287

- On the interchange instability of solar magnetic flux tubes. I. The influence of magnetic tension and internal gas pressure
Bünte, M., Steiner, O., Pizzo, V.J. **268**, 299
- Centre-to-limb variation of the Stokes V asymmetry in solar magnetic flux tubes
Bünte, M., Solanki, S.K., Steiner, O. **268**, 736
- Alternative method for the removal of the 180° ambiguity in the sign of the observed transverse photospheric magnetic field
Cuperman, S., Li, J., Semel, M. **268**, 749
- Investigation of microturbulent magnetic fields in the solar photosphere by their Hanle effect in the Sr I 4607 Å line
Faurobert-Scholl, M. **268**, 765
- Relations between the photospheric magnetic field and the emission from the outer atmosphere of cool stars. III. The chromospheric emission from individual flux tubes
Schrijver, C.J. **269**, 395
- Photospheric electric currents in solar magnetic elements
Lorrain, P., Koutchmy, S. **269**, 518
- On the propagation of ideal, linear Alfvén waves in radially stratified stellar atmospheres and winds
Velli, M. **270**, 304
- Reconstruction of coronal magnetic configurations: the case of strongly nonlinear force-free fields
Cuperman, S., Bruma, C., Zoler, D., Semel, M. **270**, 480
- The continuum intensity-magnetic field relation in sunspot umbrae
Martínez Pillet, V., Vázquez, M. **270**, 494
- Self-generated magnetic field by transverse plasmons in celestial bodies
Xiao-qing Li, Yue-hua Ma **270**, 534
- Filtering of gravity waves
Schatzman, E. **271**, L29
- Evidence for magnetic reconnection in solar flares
Démoulin, P., van Driel-Gesztelyi, L., Schmieder, B., Hénoux, J.C., Csepura, G., Hagyard, M.J. **271**, 292
- Helicity fluctuations in mean field theory: an explanation for the variability of the solar cycle?
Hoyng, P. **272**, 321
- Evidence for magnetic reconnection in large-scale magnetic structures in solar flares
Mandrini, C.H., Rovira, M.G., Démoulin, P., Hénoux, J.C., Machado, M.E., Wilkinson, L.K. **272**, 609
- A theoretical model for tilts of bipolar magnetic regions
D'Silva, S., Choudhuri, A.R. **272**, 621
- On the interchange instability of solar magnetic flux tubes. II. The influence of energy transport effects
Bünte, M., Hasan, S., Kalkofen, W. **273**, 287
- The chromospheric temperature rise in solar magnetic flux tubes
Bruls, J.H.M.J., Solanki, S.K. **273**, 293
- High spatial resolution spectro-polarimetry of small-scale magnetic elements on the Sun
Amer, M.A., Kneer, F. **273**, 304
- Magnetohydrodynamic waves in a potential coronal arcade
Oliver, R., Ballester, J.L., Hood, A.W., Priest, E.R. **273**, 647
- An equivalent-circuit representation of Alfvén waves
Narain, U., Kumar, S. **273**, 659
- Surface waves as the origin of the Evershed phenomenon
Bünte, M., Darconza, G., Solanki, S.K. **274**, 478
- Distribution of magnetic energy in $\alpha\Omega$ -dynamos. III. A localized solar dynamo
van Geffen, J.H.G.M. **274**, 534
- The origin of intranetwork fields: a small-scale solar dynamo
Petrovay, K., Szakály, G. **274**, 543
- Solar dynamics over solar cycle 21 using sunspots as tracers. I. Sunspot rotation
Nesme-Ribes, E., Ferreira, E.N., Mein, P. **274**, 563
- Mean-field buoyancy
Kichatinov, L.L., Pipin, V.V. **274**, 647
- Uncombed fields as the source of the broad-band circular polarization of sunspots
Solanki, S.K., Montavon, C.A.P. **275**, 283
- MHD equilibria with flows in uniform gravity. II. A class of exact 2-D loop-like solutions
Tsinganos, K., Surlantzis, G., Priest, E.R. **275**, 613
- Evolution, activity, magnetic fields, line-of-sight and proper motions in the solar active region NOAA 6659 (June 3–16, 1991)
Bumba, V., Klváňa, M., Kálmán, B., Györi, L. **276**, 193
- On the interchange instability of solar magnetic flux tubes. III. The influence of the magnetic field geometry
Bünte, M. **276**, 236
- Conditions for the appearance of "bald patches" at the solar surface
Titov, V.S., Priest, E.R., Démoulin, P. **276**, 564
- The modes of oscillation of a prominence. III. The slab in a skewed magnetic field
Joarder, P.S., Roberts, B. **277**, 225
- Infrared lines as probes of solar magnetic features. VI. The thermal-magnetic relation and Wilson depression of a simple sunspot
Solanki, S.K., Walther, U., Livingston, W. **277**, 639
- Photospheric and chromospheric magnetic field structure of a bipolar sunspot region
Dara, H.C., Koutchmy, S., Alissandrakis, C.E. **277**, 648
- Identification and elimination of the residual ambiguity in the sign of observed photospheric magnetic fields
Cuperman, S., Li, J., Semel, M. **278**, 279
- A flux tube-model for solar prominences
Degenhardt, U., Deinzer, W. **278**, 288
- Magnetic field strengths in umbral dots
Wiehr, E., Degenhardt, D. **278**, 584
- Equilibrium and stability of coronal force-free magnetic field configurations: the case of one ignorable variable
Bruma, C., Cuperman, S. **278**, 589
- Evidence for siphon flows with shocks in solar magnetic flux tubes
Degenhardt, D., Solanki, S.K., Montesinos, B., Thomas, J.H. **279**, L29
- On the removal of the 180° sign ambiguity in vector magnetograph measurements: the divergence-free method ($\nabla \cdot \mathbf{B} = 0$)
Li, J., Cuperman, S., Semel, M. **279**, 214
- Random velocity field corrections to the f -mode. III. A photospheric random flow and chromospheric magnetic field
Murawski, K., Goossens, M. **279**, 225
- Polarimetry and spectroscopy of a simple sunspot. II. On the height and temperature dependence of the magnetic field
Balthasar, H., Schmidt, W. **279**, 243
- Current-sheet formation in two-dimensional coronal fields
Billinghurst, M.N., Craig, I.J.D., Sneyd, A.D. **279**, 589
- Modeling of integrated sunlight velocity measurements: the effect of surface darkening by magnetic fields
Ulrich, R.K., Henney, C.J., Schimpf, S., Fossat, E., Gelly, B., Grec, G., Loudagh, S., Schmider, F.X., Pallé, P., Regulo, C., Roca Cortés, T., Sanchez, L. **280**, 268
- The continuous Alfvén spectrum of line-tied coronal loops
Halberstadt, G., Goedbloed, J.P. **280**, 647
- Spectral lines unaffected by instrumental polarization. I. Theory
Sánchez Almeida, J., Vela Villaloz, E. **280**, 688

Sun: oscillations

On the correlation of power in sunspot umbral oscillations with continuum brightness

Aballe Villero, M.A., Marco, E., Vázquez, M., García de la Rosa, J.I. **267**, 275

Properties of the atmospheric noise in full-disk photometric observations of solar oscillations: implications for asteroseismology from the ground

Clette, F. **267**, 577

Seismological observations with a Fourier transform spectrometer: detection of Jovian oscillations

Mosser, B., Mékarnia, D., Maillard, J.P., Gay, J., Gautier, D., Delache, P. **267**, 604

Visibility of solar p-modes

Toutain, T., Gouttebroze, P. **268**, 309

Standard solar models with CESAM code: neutrinos and helioseismology

Berthomieu, G., Provost, J., Morel, P., Lebreton, Y. **268**, 775

Line-of-sight velocity measurements using a dissector-tube. III. Prominence oscillations

Mashnich, G.P., Druzhinin, S.A., Pevtsov, A.A., Levkovsky, V.I. **269**, 503

Filtering of gravity waves

Schatzman, E. **271**, L29

A preprocessing strategy for helioseismic inversions

Christensen-Dalsgaard, J., Thompson, M.J. **272**, L1

Damping of solar p-mode oscillations. I. Radial modes with eddy viscosity

Stix, M., Rüdiger, G., Knölker, M., Grabowski, U. **272**, 340

Random velocity field corrections of the *f*-mode. I. Horizontal flows

Murawski, K., Roberts, B. **272**, 595

Random velocity field corrections of the *f*-mode. II. Vertical and horizontal flow

Murawski, K., Roberts, B. **272**, 601

Some evidence for large-scale motions on the Sun

Bertello, L., Restaino, S.R. **273**, 260

The modes of oscillation of a Menzel prominence

Joarder, P.S., Roberts, B. **273**, 642

Magnetohydrodynamic waves in a potential coronal arcade

Oliver, R., Ballester, J.L., Hood, A.W., Priest, E.R. **273**, 647

On the interactions of hydrodynamic shock waves in stellar atmospheres

Fleck, B., Schmitz, F. **273**, 671

Oscillations of the Sun's chromosphere. VI. K grains, resonances, and gravity waves

Kneer, F., von Uexküll, M. **274**, 584

The probability-density function of solar p modes and the location of the excitation mechanism

Gabriel, M. **274**, 931

On the location of the excitation of solar p-modes

Gabriel, M. **274**, 935

A measurement of the *l*=1 solar rotational splitting

Loudagh, S., Provost, J., Berthomieu, G., Ehgamberdiev, S., Fossat, E., Gelly, B., Grec, G., Khalikov, S., Lazrek, M., Palle, P., Regulo, C., Sanchez, L., Schmider, F.X. **275**, L25

A new method for helioseismic data analysis

Baudin, F., Gabriel, A., Gibert, D. **276**, L1

Oscillations in sunspots near the solar limb and the influence of seeing effects

Federspiel, M., Mattig, W. **276**, 227

Line-of-sight velocity measurements using a dissector-tube. II. Time variations of the tangential velocity component in the Evershed effect

Druzhinin, S.A., Pevtsov, A.A., Levkovsky, V.L., Nikonova, M.V. **277**, 242

Doppler oscillations in solar prominences simultaneously observed with two telescopes. Discovery of a 30 s oscillation

Balthasar, H., Wiehr, E., Schleicher, H., Wöhl, H. **277**, 635

Radiation-hydrodynamic waves in an optically non-grey atmosphere

Zhugzhda, Y.D., Dzhililov, N.S., Staude, J. **278**, L9

Phases and amplitudes of acoustic-gravity waves. II. The effects of reflection

Marmolino, C., Severino, G., Deubner, F.-L., Fleck, B. **278**, 617

Random velocity field corrections to the *f*-mode. III. A photospheric random flow and chromospheric magnetic field

Murawski, K., Goossens, M. **279**, 225

Some regularities of velocity oscillations in prominences

Bashkirtsev, V.S., Mashnich, G.P. **279**, 610

Stellar pulsations with stochastic driving

Buchler, J.R., Goupil, M.-J., Kovács, G. **280**, 157

Modeling of integrated sunlight velocity measurements: the effect of surface darkening by magnetic fields

Ulrich, R.K., Henney, C.J., Schimpf, S., Fossat, E., Gelly, B., Grec, G., Loudagh, S., Schmider, F.X., Pallé, P., Regulo, C., Roca Cortés, T., Sanchez, L. **280**, 268

Full-disk helioseismic IRIS raw data calibration

Pallé, P.L., Fossat, E., Regulo, C., Loudagh, S., Schmider, F.X., Ehgamberdiev, S., Gelly, B., Grec, G., Khalikov, S., Lazrek, M., Sanchez, L. **280**, 324

Standard solar model: interplay between the equation of state, the opacity and the determination of the initial helium content

Charbonnel, C., Lebreton, Y. **280**, 666

Temporal window effects and their deconvolution from solar oscillation spectra

Lazrek, M., Hill, F. **280**, 704

Sun: particle emission

Filtering of gravity waves

Schatzman, E. **271**, L29

Solar neutrinos and nuclear reactions in the solar interior

Castellani, V., Degl'Innocenti, S., Fiorentini, G. **271**, 601

Electron acceleration due to beam flux increase in a converging magnetic field

Karlický, M., Hénoux, J.C. **278**, 627

Sun: photosphere

On the correlation of power in sunspot umbral oscillations with continuum brightness

Aballe Villero, M.A., Marco, E., Vázquez, M., García de la Rosa, J.I. **267**, 275

On the interchange instability of solar magnetic flux tubes. I. The influence of magnetic tension and internal gas pressure

Bunte, M., Steiner, O., Pizzo, V.J. **268**, 299

Visibility of solar p-modes

Toutain, T., Gouttebroze, P. **268**, 309

Centre-to-limb variation of the Stokes V asymmetry in solar magnetic flux tubes

Bunte, M., Solanki, S.K., Steiner, O. **268**, 736

Alternative method for the removal of the 180° ambiguity in the sign of the observed transverse photospheric magnetic field

Cuperman, S., Li, J., Semel, M. **268**, 749

Investigation of microturbulent magnetic fields in the solar photosphere by their Hanle effect in the Sr I 4607 Å line

Faurobert-Scholl, M. **268**, 765

The formation of helioseismology lines. IV. The Ni I 676.8 nm inter-combination line

Bruls, J.H.M.J. **269**, 509

Photospheric electric currents in solar magnetic elements

Lorrain, P., Koutchmy, S. **269**, 518

Dynamics of the solar granulation: coherence of line parameters and their variation with the height

Hanslmeier, A., Nesis, A., Mattig, W. **270**, 516

Balmer lines in cool dwarf stars. I. Basic influence of atmospheric models

Fuhrmann, K., Axer, M., Gehren, T. **271**, 451

Turbulent power spectra of solar granulation

Espagnet, O., Muller, R., Roudier, T., Mein, N. **271**, 589

The fine structure of solar granulation and its relationship to large-scale photospheric structures

Abdussamatov, H.I. **272**, 580

Some evidence for large-scale motions on the Sun

Bertello, L., Restaino, S.R. **273**, 260

On the interchange instability of solar magnetic flux tubes. II. The influence of energy transport effects

Büntte, M., Hasan, S., Kalkofen, W. **273**, 287

The fine scale dynamics of a sunspot penumbra

Johannesson, A. **273**, 633

Radiative lifetime measurements in Dy II and the solar abundance of dysprosium

Biémont, E., Lowe, R.M. **273**, 665

On the asymmetry of solar activity

Carbonell, M., Oliver, R., Ballester, J.L. **274**, 497

The distribution of sunspot decay rates

Martínez Pillet, V., Moreno-Insertis, F., Vázquez, M. **274**, 521

The origin of intranetwork fields: a small-scale solar dynamo

Petrovay, K., Szakály, G. **274**, 543

A study of the asymmetry of Fe I lines in the solar spectrum

Stathopoulou, M., Alissandrakis, C.E. **274**, 555

The contribution of ion-atom radiative collisions to the opacity of the solar atmosphere

Mihajlov, A.A., Dimitrijević, M.S., Ignjatović, L.M. **276**, 187

Evolution, activity, magnetic fields, line-of-sight and proper motions in the solar active region NOAA 6659 (June 3–16, 1991)

Bumba, V., Klvana, M., Kálmán, B., Györi, L. **276**, 193

On the interchange instability of solar magnetic flux tubes. III. The influence of the magnetic field geometry

Büntte, M. **276**, 236

Conditions for the appearance of "bald patches" at the solar surface

Titov, V.S., Priest, E.R., Démoulin, P. **276**, 564

Isoplanatism and high spatial resolution solar imaging

Irbah, A., Borgnino, J., Laclare, F., Merlin, G. **276**, 663

Radiation-hydrodynamic waves in an optically non-grey atmosphere

Zhugzhda, Y.D., Dzhilov, N.S., Staude, J. **278**, L9

Phases and amplitudes of acoustic-gravity waves. II. The effects of reflection

Marmolino, C., Severino, G., Deubner, F.-L., Fleck, B. **278**, 617

On the removal of the 180° sign ambiguity in vector magnetograph measurements: the divergence-free method ($\nabla \cdot \mathbf{B} = 0$)

Li, J., Cuperman, S., Semel, M. **279**, 214

Dynamics of the solar granulation. II. A quantitative approach

Nesis, A., Hanslmeier, A., Hammer, R., Komm, R., Mattig, W., Staiger, J. **279**, 599

Sun: prominences

Physical parameter fields of the post-flare loop system on February 18, 1984

Li, K.J., Ding, Y.J., Gu, X.M., Li, Q.S., Zhong, S.H., Li, Q.Y. **269**, 496

Line-of-sight velocity measurements using a dissector-tube. III. Prominence oscillations

Mashnich, G.P., Druzhinin, S.A., Pevtsov, A.A., Levkovsky, V.I. **269**, 503

UV prominences observed with the HRTS: structure and physical properties

Wiik, J.E., Dere, K., Schmieder, B. **273**, 267

The modes of oscillation of a Menzel prominence

Joarder, P.S., Roberts, B. **273**, 642

An active solar prominence in 1.3 mm radiation

Harrison, R.A., Carter, M.K., Clark, T.A., Lindsey, C., Jefferies, J.T., Sime, D.G., Watt, G., Roellig, T.L., Becklin, E.E., Naylor, D.A., Tompkins, G.J., Braun, D. **274**, L9

Two-dimensional radiative transfer with partial frequency redistribution. II. Application to resonance lines in quiescent prominences

Paletou, F., Vial, J.C., Auer, L.H. **274**, 571

The hydrogen spectrum of model prominences

Gouttebroze, P., Heinzel, P., Vial, J.C. **275**, 355 (99, 513)

The modes of oscillation of a prominence. III. The slab in a skewed magnetic field

Joarder, P.S., Roberts, B. **277**, 225

Doppler oscillations in solar prominences simultaneously observed with two telescopes. Discovery of a 30 s oscillation

Balthasar, H., Wiehr, E., Schleicher, H., Wöhl, H. **277**, 635

A flux tube-model for solar prominences

Degenhardt, U., Deinzer, W. **278**, 288

Some regularities of velocity oscillations in prominences

Bashkirtsev, V.S., Mashnich, G.P. **279**, 610

Sun: radio radiation

Spectral observations of active region sources with RATAN-600 and WSRT

Alissandrakis, C.E., Gelfreikh, G.B., Borovik, V.N., Korzhavin, A.N., Bogod, V.M., Nindos, A., Kundu, M.R. **270**, 509

An active solar prominence in 1.3 mm radiation

Harrison, R.A., Carter, M.K., Clark, T.A., Lindsey, C., Jefferies, J.T., Sime, D.G., Watt, G., Roellig, T.L., Becklin, E.E., Naylor, D.A., Tompkins, G.J., Braun, D. **274**, L9

The bandwidth of millisecond radio spikes in solar flares

Csillaghy, A., Benz, A.O. **274**, 487

A study of the evolution of electron and ion acceleration during the 09:09 UT solar flare on 1989 September 9

Chupp, E.L., Trotter, G., Marschhäuser, H., Pick, M., Soru-Escaut, I., Rieger, E., Dunphy, P.P. **275**, 602

Analysis of solar spike events by means of symbolic dynamics methods

Schwarz, U., Benz, A.O., Kurths, J., Witt, A. **277**, 215

On the radio wave group delay in the solar corona for the case of decimeter type III bursts

Itkina, M.A., Levin, B.N., Tsybko, Y.G. **279**, 235

Sun: rotation

Rotational effects on convection simulated at different latitudes

Pulkkinen, P., Tuominen, I., Brandenburg, A., Nordlund, Å., Stein, R.F. **267**, 265

A preprocessing strategy for helioseismic inversions

Christensen-Dalsgaard, J., Thompson, M.J. **272**, L1

Influence of the lifetime parameter on the rotation rate of sunspots

Zuccarello, F. **272**, 587

A theoretical model for tilts of bipolar magnetic regions

D'Silva, S., Choudhuri, A.R. **272**, 621

Solar dynamics over solar cycle 21 using sunspots as tracers. I. Sunspot rotation

Nesme-Ribes, E., Ferreira, E.N., Mein, P. 274, 563

A measurement of the $l=1$ solar rotational splitting

Loudagh, S., Provost, J., Berthomieu, G., Ehgamberdiev, S., Fos-sat, E., Gelly, B., Grec, G., Khalikov, S., Lazrek, M., Palle, P., Re-gulo, C., Sanchez, L., Schmider, F.X. 275, L25

A-effect and differential rotation in stellar convection zones

Kichatinov, L.L., Rüdiger, G. 276, 96

Solar dynamics over solar cycle 21 using sunspots as tracers. II. Meridional motions and covariance

Nesme-Ribes, E., Ferreira, E.N., Vince, I. 276, 211

The solar sunspot cycle in the Maunder minimum AD1645 to AD1715

Ribes, J.C., Nesme-Ribes, E. 276, 549

Large-scale solar plasma rotation around stable sunspots

Lustig, G., Wöhl, H. 278, 637

An $\alpha\Omega$ -model of the solar differential rotation

Küker, M., Rüdiger, G., Kichatinov, L.L. 279, L1

Transport of angular momentum and diffusion by the action of internal waves

Schatzman, E. 279, 431

(Sun:) solar wind

A two-fluid model for the solar wind

Massaglia, S. 267, 595

First results from the Giotto magnetometer experiment during the P/Grigg-Skjellerup encounter

Neubauer, F.M., Marschall, H., Pohl, M., Glassmeier, K.-H., Mus-mann, G., Mariani, F., Acuna, M.H., Burlaga, L.F., Ness, N.F., Wallis, M.K., Schmidt, H.U., Ungstrup, E. 268, L5

Two-dimensional models for solar and stellar winds: hydrodynamic effects

Lima, J.J.G., Priest, E.R. 268, 641

Analytical studies of collimated winds. III. Nonrotating meridional MHD outflows

Trussoni, E., Tsinganos, K. 269, 589

Doppler tracking of spacecraft with multi-frequency links

Bertotti, B., Comoretto, G., Iess, L. 269, 608

The interaction between the solar wind and the comet P/Halley at-mosphere: observations versus theoretical predictions

Baranov, V.B., Lebedev, M.G. 273, 695

The effect of the heliospheric interface filtration on the distant Lyman-Alpha glow and the pick-up proton fluxes

Fahr, H.J., Osterbart, R., Rucinski, D. 274, 612

Spectral lines from source regions of the solar wind: the O VI reso-nance doublet

Spadaro, D., Ventura, R. 276, 571

Determination of the heliospheric shock and of the supersonic solar wind geometry by means of the interstellar wind parameters

Fahr, H.-J., Fichtner, H., Scherer, K. 277, 249

(Sun:) sunspots

On the correlation of power in sunspot umbral oscillations with con-tinuum brightness

Aballe Villero, M.A., Marco, E., Vázquez, M., García de la Rosa, J.I. 267, 275

Are sunspot penumbrae deep or shallow?

Solanki, S.K., Schmidt, H.U. 267, 287

The continuum intensity-magnetic field relation in sunspot umbrae

Martínez Pillet, V., Vázquez, M. 270, 494

Spectral observations of active region sources with RATAN-600 and WSRT

Alissandrakis, C.E., Gelfreich, G.B., Borovik, V.N., Korzhavin, A.N., Bogod, V.M., Nindos, A., Kundu, M.R. 270, 509

Influence of the lifetime parameter on the rotation rate of sunspots

Zuccarello, F. 272, 587

A theoretical model for tilts of bipolar magnetic regions

D'Silva, S., Choudhuri, A.R. 272, 621

The fine scale dynamics of a sunspot penumbra

Johannesson, A. 273, 633

Surface waves as the origin of the Evershed phenomenon

Bunte, M., Darconza, G., Solanki, S.K. 274, 478

On the asymmetry of solar activity

Carbonell, M., Oliver, R., Ballester, J.L. 274, 497

The distribution of sunspot decay rates

Martínez Pillet, V., Moreno-Insertis, F., Vázquez, M. 274, 521

Solar dynamics over solar cycle 21 using sunspots as tracers. I. Sunspot rotation

Nesme-Ribes, E., Ferreira, E.N., Mein, P. 274, 563

Uncombed fields as the source of the broad-band circular polarizati-on of sunspots

Solanki, S.K., Montavon, C.A.P. 275, 283

Solar dynamics over solar cycle 21 using sunspots as tracers. II. Me-ridional motions and covariance

Nesme-Ribes, E., Ferreira, E.N., Vince, I. 276, 211

The formation of the alkali resonance lines in cool atmospheres. I. Na I and K I in a sunspot umbra

Caccin, B., Gomez, M.T., Severino, G. 276, 219

Oscillations in sunspots near the solar limb and the influence of see-ing effects

Federspiel, M., Mattig, W. 276, 227

The solar sunspot cycle in the Maunder minimum AD1645 to AD1715

Ribes, J.C., Nesme-Ribes, E. 276, 549

On the origin of penumbral line asymmetries

Degenhardt, D. 277, 235

Line-of-sight velocity measurements using a dissector-tube. II. Time variations of the tangential velocity component in the Evershed effect

Druzhinin, S.A., Pevtsov, A.A., Levkovsky, V.L., Nikonova, M.V. 277, 242

Infrared lines as probes of solar magnetic features. VI. The ther-mal-magnetic relation and Wilson depression of a simple sunspot

Solanki, S.K., Walther, U., Livingston, W. 277, 639

Photospheric and chromospheric magnetic field structure of a bipolar sunspot region

Dara, H.C., Koutchmy, S., Alissandrakis, C.E. 277, 648

Magnetic field strengths in umbral dots

Wiehr, E., Degenhardt, D. 278, 584

Large-scale solar plasma rotation around stable sunspots

Lustig, G., Wöhl, H. 278, 637

Polarimetry and spectroscopy of a simple sunspot. II. On the height and temperature dependence of the magnetic field

Balthasar, H., Schmidt, W. 279, 243

On solar activity and the solar cycle. A new analysis of the Butterfly Diagram

Mouradian, Z., Soru-Escut, I. 280, 661

Sun: transition region

Electron acceleration due to beam flux increase in a converging ma-gnetic field

Karlický, M., Hénoux, J.C. 278, 627

Surveys

A composite large-scale CO survey at high galactic latitudes in the second quadrant

Heithausen, A., Stacy, J.G., de Vries, H.W., Mebold, U., Thaddeus, P. **268**, 265

The rate of supernovae. I. The data base, the recipe and the uncertainties

Cappellaro, E., Turatto, M., Benetti, S., Tsvetkov, D.Y., Bartunov, O.S., Makarova, I.N. **268**, 472

New globular cluster candidates in the inner regions of M 31 and the projected density profile of the cluster system

Battistini, P.L., B noli, F., Casavecchia, M., Ciotti, L., Federici, L., Fusi Pecci, F. **272**, 77

Carbon stars in the Small Magellanic Cloud. II. Catalogue of 1707 objects with identifications and spectrophotometry

Rebeiro, E., Azzopardi, M., Westerlund, B.E. **272**, 751 (97, 603)

A CO(1-0) and CO(2-1) survey of nearby spiral galaxies. I. Data and observations

Braine, J., Combes, F., Casoli, F., Dupraz, C., G rin, M., Klein, U., Wielebinski, R., Brouillet, N. **272**, 754 (97, 887)

HS 0209+0832: a DAB white dwarf with a temperature fitting into the DB gap

Jordan, S., Heber, U., Engels, D., Koester, D. **273**, L27

Emission-line galaxies in the Hamburg Quasar Survey

Vogel, S., Engels, D., Hagen, H.-J., Groote, D., Wisotzki, L., Cordis, L., Reimers, D. **273**, 353 (98, 193)

An OH mainline maser survey of IRAS circumstellar envelope sources

David, P., Le Squeren, A.M., Sivagnanam, P., Braz, M.A. **273**, 354 (98, 245)

An atlas of supernova remnant candidates in Messier 31

Braun, R., Walterbos, R.A.M. **273**, 355 (98, 327)

The rate of supernovae. II. The selection effects and the frequencies per unit blue luminosity

Cappellaro, E., Turatto, M., Benetti, S., Tsvetkov, D.Y., Bartunov, O.S., Makarova, I.N. **273**, 383

IRAS sources beyond the solar circle. III. Observations of H₂O, OH, CH₃OH and CO

Wouterloot, J.G.A., Brand, J., Fiegle, K. **274**, 1013 (98, 589)

A deep CO survey of the third galactic quadrant

May, J., Bronfman, L., Alvarez, H., Murphy, D.C., Thaddeus, P. **274**, 1015 (99, 103)

Probing the AGB tip: luminous carbon stars in the galactic plane

Kastner, J.H., Forveille, T., Zuckerman, B., Omont, A. **275**, 163

CCD sequences for the calibration of southern hemisphere survey plates. I

Demers, S., Lamontagne, R., Wesemael, F., Fontaine, G., Barn oud, R., Irwin, M.J. **275**, 355 (99, 437)

CCD sequences for the calibration of southern hemisphere survey plates. II

Demers, S., Lamontagne, R., Wesemael, F., Fontaine, G., Barn oud, R., Irwin, M.J. **275**, 355 (99, 461)

The Miyun 232 MHz Survey. I. Fields centred at: α : 00^h, δ : 41[ ]12' and α : 07^h, δ : 35[ ]00'

Zhang, X., Zhen, Y., Chen, H., Wang, S. **275**, 356 (99, 545)

Detection statistics of Abell and ACO clusters of galaxies in the ROSAT All-Sky Survey

Ebeling, H., Voges, W., B hringer, H., Edge, A.C. **275**, 360

ROSAT all-sky X-ray survey of the core region of the Pleiades cluster

Schmitt, J.H.M.M., Kahabka, P., Stauffer, J., Piers, A.J.M. **277**, 114

An OH satellite line maser survey of cool IRAS sources and circumstellar envelope evolution

David, P., Le Squeren, A.M., Sivagnanam, P. **277**, 453

Visual binaries among pre-main sequence stars

Reipurth, B., Zinnecker, H. **278**, 81

A systematic search for young binaries in Taurus

Leinert, C., Zinnecker, H., Weitzel, N., Christou, J., Ridgway, S.T., Jameson, R., Haas, M., Lenzen, R. **278**, 129

An objective-prism survey of emission-line objects in M 31

Meyssonnier, N., Lequeux, J., Azzopardi, M. **280**, 346 (102, 251)

Photometric CCD sequences for calibration of the ESO(R) survey

Cunow, B., Wargau, W.F. **280**, 346 (102, 331)

A new catalogue of H α emission-line stars and small nebulae in the Small Magellanic Cloud

Meyssonnier, N., Azzopardi, M. **280**, 349 (102, 451)

Techniques: image processing

Speckle imaging of solar small-scale structure. I. Methods

von der L he, O. **268**, 374

Preliminary analysis of CCD observations of Saturn's satellites

Beurle, K., Harper, D., Jones, D.H.P., Murray, C.D., Taylor, D.B., Williams, I.P. **269**, 564

Grain depth distribution and the reality of optical transient candidates near the GRB 790325 b position

Hudec, R. **270**, 151

Superresolution in pattern recognition and image restoration problems

Terebizh, V.Y. **270**, 543

Remarks on the information content of stellar images obtained with CCD detectors

M ller, R., Geyer, E.H. **270**, 557

Image reconstruction by redundant spacing calibration with a 3-telescope optical interferometer: constraints on the delay lines

Ageorges, N., Cruzal bes, P., Schumacher, G. **271**, 373

Radio-interferometric imaging of very large objects: implications for array design

Cornwell, T.J., Holdaway, M.A., Uson, J.M. **271**, 697

High resolution image restoration by stellar interferometry: the 5 beam optical simulator

Cruzal bes, P., Schumacher, G., Robbe, S. **272**, 709

Imaging with INTEGRAL

Dean, A.J. **272**, 745 (97, 361)

Brightness determination on photographic plates using a CCD line scanner

Kroll, P., Neugebauer, P. **273**, 341

Warped disks, shells and other features of galaxies in the IC 4296 group, as revealed by Schmidt plate co-addition

Kemp, S.N., Meaburn, J. **274**, 19

Digital image centering with the maximum likelihood method

Lu Chun-Lin **275**, 349

Isoplanatism and high spatial resolution solar imaging

Irbah, A., Borgnino, J., Laclare, F., Merlin, G. **276**, 663

Adaptive filtering in astronomical image processing. I. Basic considerations and examples

Lorenz, H., Richter, G.M., Capaccioli, M., Longo, G. **277**, 321

Improving the eclipse mapping method

Baptista, R., Steiner, J.E. **277**, 331

IRAS pointed observations data processing

Assendorp, R., Wesselius, P.R. **277**, 361 (100, 473)

Optical imaging of the gravitational lens system B 1422+231

Remy, M., Surdej, J., Smette, A., Claeskens, J.-F. **278**, L19

Iterative image reconstruction from the bispectrum

Hofmann, K.-H., Weigelt, G. **278**, 328

Shutter-free flatfielding for CCD detectors

Surma, P. **278**, 654

Hipparcos link with Carte du Ciel triple images

Dick, W.R., Tucholke, H.-J., Brosche, P., Galas, R., Geffert, M., Guibert, J. **279**, 267

Interferometric imaging with arrays of large optical telescopes in the multi-speckle mode

Reinheimer, T., Hofmann, K.-H., Weigelt, G. **279**, 322

Optical counterpart of galactic plane variable radio sources

Paredes, J.M., Martí, J., Jordi, C., Trullols, E., Peracaula, M. **280**, 347 (**102**, 381)

Quasar - host galaxy detection using the cross-correlation technique

Boyce, P.J., Phillips, S., Davies, J.I. **280**, 694

Techniques: interferometric

A comprehensive study of the peculiar spiral galaxy NGC 1808. II. VLA H I line observations

Koribalski, B., Dahlem, M., Mebold, U., Brinks, E. **268**, 14

Speckle imaging of solar small-scale structure. I. Methods

von der Lühe, O. **268**, 374

Lensing effects of gravitational radiation near celestial sources

Labeyrie, A. **268**, 823

High resolution radio map of the X-ray binary LSI +61°303

Massi, M., Paredes, J.M., Estalella, R., Felli, M. **269**, 249

Sub-diffraction-limited infrared speckle observations of Z Canis Majoris, a 0.10 variable binary star

Haas, M., Christou, J.C., Zinnecker, H., Ridgway, S.T., Leinert, C. **269**, 282

A series of VLBI images of SS 433 during the outbursts in May/June 1987

Vermeulen, R.C., Schilizzi, R.T., Spencer, R.E., Romney, J.D., Fejes, I. **270**, 177

First 7 mm VLBI observations of the peculiar superluminal radio source 4C 39.25

Alberdi, A., Krichbaum, T.P., Marcaide, J.M., Witzel, A., Graham, D.A., Inoue, M., Morimoto, M., Booth, R.S., Rönnäng, B.O., Colomer, F., Rogers, A.E.E., Zensus, J.A., Readhead, A.C.S., Lawrence, C.R., Vermeulen, R., Bartel, N., Shapiro, I.I., Burke, B.F. **271**, 93

Image reconstruction by redundant spacing calibration with a 3-telescope optical interferometer: constraints on the delay lines

Ageorges, N., Cruzalèbes, P., Schumacher, G. **271**, 373

Near-infrared speckle interferometry of Lk H α 233

Leinert, C., Haas, M., Weitzel, N. **271**, 535

Radio-interferometric imaging of very large objects: implications for array design

Cornwell, T.J., Holdaway, M.A., Uson, J.M. **271**, 697

High resolution image restoration by stellar interferometry: the 5 beam optical simulator

Cruzalèbes, P., Schumacher, G., Robbe, S. **272**, 709

The radio continuum morphology of the Orion Nebula: from 10' to 0.1'' resolution

Felli, M., Churchwell, E., Wilson, T.L., Taylor, G.B. **273**, 352 (**98**, 137)

First 43 GHz VLBI detection of the compact source Sgr A* in the Galactic Center

Krichbaum, T.P., Zensus, J.A., Witzel, A., Mezger, P.G., Standke, K.J., Schalinski, C.J., Alberdi, A., Marcaide, J.M., Zylka, R., Rogers, A.E.E., Booth, R.S., Rönnäng, B.O., Colomer, F., Bartel, N., Shapiro, I.I. **274**, L37

First 43 GHz VLBI-observations with the 30-m radio telescope at Pico Veleta

Krichbaum, T.P., Witzel, A., Graham, D.A., Standke, K.J., Schwartz, R., Lochner, O., Schalinski, C.J., Greve, A., Steppe, H., Brunswig, W., Butin, G., Hein, H., Navarro, S., Peñalver, J., Grewing, M., Booth, R.S., Colomer, F., Rönnäng, B.O. **275**, 375

The ESO atmospheric temporal coherence monitor dedicated to high angular resolution imaging

Lopez, B., Sarazin, M. **276**, 320

VLBA image of Sgr A* at $\lambda = 1.35$ cm

Alberdi, A., Lara, L., Marcaide, J.M., Elósegui, P., Shapiro, I.I., Cotton, W.D., Diamond, P.J., Romney, J.D., Preston, R.A. **277**, L1

The cosmic anisotropy telescope

Robson, M., Yassin, G., Woan, G., Wilson, D.M.A., Scott, P.F., Lasenby, A.N., Kenderdine, S., Duffett-Smith, P.J. **277**, 314

A systematic search for young binaries in Taurus

Leinert, C., Zinnecker, H., Weitzel, N., Christou, J., Ridgway, S.T., Jameson, R., Haas, M., Lenzen, R. **278**, 129

Iterative image reconstruction from the bispectrum

Hofmann, K.-H., Weigelt, G. **278**, 328

Interferometric imaging with arrays of large optical telescopes in the multi-speckle mode

Reinheimer, T., Hofmann, K.-H., Weigelt, G. **279**, 322

CO in the troposphere of Neptune: detection of the $J=1-0$ line in absorption

Guilloteau, S., Dutrey, A., Marten, A., Gautier, D. **279**, 661

Monitoring OH/IR stars at the Galactic centre with the VLA

Van Langevelde, H.J., Janssens, A.M., Goss, W.M., Habing, H.J., Winnberg, A. **279**, 680 (**101**, 109)

The Orion radio zoo revisited: source variability

Felli, M., Taylor, G.B., Catarzi, M., Churchwell, E., Kurtz, S. **279**, 680 (**101**, 127)

Techniques: miscellaneousObservation of the central part of the β Pictoris disk with an anti-blooming CCD

Lecavelier des Etangs, A., Perrin, G., Ferlet, R., Vidal-Madjar, A., Colas, F., Buil, C., Sèvre, F., Arlot, J.-E., Beust, H., Lagrange-Henri, A.-M., Lecacheux, J., Deleuil, M., Gry, C. **274**, 877

Techniques: photometricA rapid optical flare in the distant γ -ray source 0836+710

von Linde, J., Borgeest, U., Schramm, K.-J., Graser, U., Heidt, J., Hopp, U., Meisenheimer, K., Nieser, L., Steinle, H., Wagner, S. **267**, L23

vby- β CCD field star photometry with the Nordic Optical Telescope

Jönch-Sørensen, H. **267**, 54

Properties of the atmospheric noise in full-disk photometric observations of solar oscillations: implications for asteroseismology from the ground

Clette, F. **267**, 577

Spurious effects in the presence of a variable extinction coefficient in photoelectric photometry

Poretti, E., Zerbi, F. **268**, 369

Intrinsic colours of O, B and early A-type stars in the Geneva system

Cramer, N. **269**, 457

Remarks on the information content of stellar images obtained with CCD detectors

Müller, R., Geyer, E.H. **270**, 557

The atmospheric parameters of A and F stars. I. Comparison of various methods

Smalley, B., Dworetzky, M.M. **271**, 515

On the reduction of narrow-band photometry

Manfroid, J. **271**, 714

COYOTES I: the photometric variability and rotational evolution of T Tauri stars

Bouvier, J., Cabrit, S., Fernández, M., Martín, E.L., Matthews, J.M. **272**, 176

Variable phase factors during the rotation of asteroid 51 Nemausa

Kahl Kristensen, L., Gammelgaard, P. **272**, 345

Photographic surface photometry of the Milky Way. VII. High-resolution B surface photometry of the southern Milky Way

Kimeswenger, S., Hoffmann, B., Schlosser, W., Schmidt-Kaler, T. **272**, 749 (97, 517)

Photometric CCD sequences in 13 southern Abell clusters

Cunow, B. **272**, 750 (97, 541)

Infrared photometry and radial velocities of field RR Lyrae

Fernley, J.A., Skillen, I., Burki, G. **272**, 753 (97, 815)

Brightness determination on photographic plates using a CCD line scanner

Kroll, P., Neugebauer, P. **273**, 341

Erratum: The calibration of Strömgren photometry for A, F and early G supergiants. III. The A and early F supergiants

Gray, R.O. **273**, 349

Intrinsic IR colours of normal B-type stars using the Geneva visual and ESO IR photometric systems

Dougherty, S.M., Cramer, N., van Kerkwijk, M.H., Taylor, A.R., Waters, L.B.F.M. **273**, 503

On the nature of bright Blue Stragglers in the centre of M 3 and NGC 6397: analysis of UVB observations

Lauzeral, C., Aurière, M., Coupinot, G. **274**, 214

The atmospheric parameters of A and F stars. II. The calibration of the Strömgren δm_0 index for A-type stars

Smalley, B. **274**, 391

Photometry of visual binaries most of which have known orbits

Sinachopoulos, D. **274**, 1014 (99, 11)

CCD sequences for the calibration of southern hemisphere survey plates. I

Demers, S., Lamontagne, R., Wesemael, F., Fontaine, G., Barnéoud, R., Irwin, M.J. **275**, 355 (99, 437)

CCD sequences for the calibration of southern hemisphere survey plates. II

Demers, S., Lamontagne, R., Wesemael, F., Fontaine, G., Barnéoud, R., Irwin, M.J. **275**, 355 (99, 461)

Photoelectric β photometry of 118 stars with $14 \leq V \leq 15$ and $B - V \leq 1$ at the south galactic pole

Knude, J. **275**, 355 (99, 499)

UBV photometry of galactic foreground and LMC member stars. I. Galactic foreground stars

Gochermann, J., Grothues, H.-G., Oestreicher, M.O., Berghöfer, T., Schmidt-Kaler, T. **275**, 356 (99, 591)

UBVRI photometry of FKSZ stars. IV.

Carrasco, G., Loyola, P. **277**, 361 (100, 489)

Low amplitude variability and transient periodicity in FF Andromedae and other active stars

Peres, G., Ventura, R., Pagano, I., Rodonò, M. **278**, 179

Recent activity in the optical and radio lightcurves of the blazar 3C 345: indications for a "lighthouse effect" due to jet rotation

Schramm, K.-J., Borgeest, U., Camenzind, M., Wagner, S.J., Bade, N., Dreissigacker, O., Heidt, J., Hoff, W., Kayser, R., Kühl, D., von Linde, J., Linnert, M.D., Pelt, J., Schramm, T., Sillanpää, A., Takalo, L.O., Valtaoja, E., Vigotti, M. **278**, 391

Shutter-free flatfielding for CCD detectors

Surma, P. **278**, 654

Strömgren four-colour *uvby* photometry of G5-type HD stars brighter than $m_V = 8.6$

Olsen, E.H. **280**, 345 (102, 89)

Photometric CCD sequences for calibration of the ESO(R) survey

Cunow, B., Wargau, W.F. **280**, 346 (102, 331)

uvby β photometry of E-region stars

Jönch-Sørensen, H. **280**, 350 (102, 637)

Techniques: polarimetric

Synchrotron radiation from the jet of 3C 273. II. The radio structure and polarization

Conway, R.G., Garrington, S.T., Perley, R.A., Biretta, J.A. **267**, 347

Linear polarimetry of Ap stars. II. New observations with a reappraisal of former ones

Leroy, J.L., Landolfi, M., Landi Degl'Innocenti, E. **270**, 335

The continuum intensity-magnetic field relation in sunspot umbrae

Martínez Pillet, V., Vázquez, M. **270**, 494

Near-infrared speckle interferometry of Lk H α 233

Leinert, C., Haas, M., Weitzel, N. **271**, 535

The polarized spectrum of Cygnus A

Jackson, N., Tadhunter, C.N. **272**, 105

Spectral lines unaffected by instrumental polarization. I. Theory

Sánchez Almeida, J., Vela Villaloz, E. **280**, 688

Techniques: radial velocities

The K-type supergiant HR 237 (HD 4817)

Griffin, R.F. **268**, 615

Line-of-sight velocity measurements using a dissector-tube. I. An instrument description

Druzhinin, S.A., Pevtsov, A.A. **272**, 378

Infrared photometry and radial velocities of field RR Lyrae

Fernley, J.A., Skillen, I., Burki, G. **272**, 753 (97, 815)

An astronomical seismometer

Frandsen, S., Douglas, N.G., Butcher, H.R. **279**, 310

Studies of early-type variable stars. X. Reticon-based radial velocities of β Persei

Hill, G., Perry, C.L., Khalessheh, B. **279**, 677 (101, 579)

Techniques: spectroscopic

Spectroscopic monitoring of active galactic nuclei. II. The Seyfert-1 galaxy NGC 3516

Wanders, I., van Groningen, E., Alloin, D., Aretxaga, I., Axon, D., de Bruyn, A.G., Clavel, J., Dietrich, M., Goad, M.R., Gondhalekar, P., Horne, K., Jackson, N., Kollatschny, W., Laurikainen, E., Lawrence, A., Masegosa, J., O'Brien, P.T., del Olmo, A., Penston, M.V., Perea, J., Pérez, E., Pérez-Fournon, I., Perry, J.J., Robinson, A., Rodríguez Espinosa, J.M., Stirpe, G.M., Tadhunter, C., Terlevich, R., Unger, S., Wagner, S.J., Williams, R. **269**, 39

Monitoring of very rapid changes in the optical spectrum of SS433 in May/June 1987

Vermeulen, R.C., Murdin, P.G., van den Heuvel, E.P.J., Fabrika, S.N., Wagner, R.M., Margon, B., Hutchings, J.B., Schilizzi, R.T., van Kerkwijk, M.H., van den Hoek, L.B., Ott, E., Angebault, L.P., Miley, G.K., D'Odorico, S., Borisov, N. **270**, 204

Active optics and deformed toroid concave gratings: higher order aspherizations

Wang, M., Lemaître, G. **271**, 365

Correction of spectra for telluric absorption lines with the help of a molecular data bank and high resolution forward modelling: H₂O lines around the sodium doublet at 589.5 nm

Lallement, R., Bertin, P., Chassefière, E., Scott, N. **271**, 734

The atmospheric parameters of A and F stars. II. The calibration of the Strömgren δm_0 index for A-type stars

Smalley, B. **274**, 391

Multi-site continuous spectroscopy. I. Overview of the MUSICOS 1989 campaign organization

Catala, C., Foing, B.H., Baudrand, J., Cao, H., Char, S., Chatzichristou, H., Cuby, J.G., Czarny, J., Dreux, M., Felenbok, P., Floquet, M., Guérin, J., Huang, L., Hubert-Delpace, A.M., Hubert, H., Huovelin, J., Jankov, S., Jiang, S., Li, Q., Neff, J.E., Petrov, P., Savanov, I., Shcherbakov, A., Simon, T., Tuominen, I., Zhai, D. **275**, 245

Line-of-sight velocity measurements using a dissector-tube. II. Time variations of the tangential velocity component in the Evershed effect

Druzhinin, S.A., Pevtsov, A.A., Levkovsky, V.L., Nikonova, M.V. **277**, 242

Results from two-dimensional spectroscopic observations of solar granulation with a Fabry-Perot interferometer

Bendlin, C., Volkmer, R. **278**, 601

Investigation of micro-flaring and secular and quasi-periodic variations in dMe stars. VIII. Phase summation techniques in spectroscopy of GI 735

Andrews, A.D., Stanek, K.Z. **279**, 197

A fireball spectrum analysis

Borovička, J. **279**, 627

Telescopes

ARGO: a balloon-borne telescope for measurements of the millimeter diffuse sky emission

de Bernardis, P., Aquilini, E., Boscaleri, A., De Petris, M., Ger-vasi, M., Martinis, L., Masi, S., Natale, V., Palumbo, P., Scaramuzzi, F., Valenziano, L. **271**, 683

X-ray timing explorer mission

Bradt, H.V., Rothschild, R.E., Swank, J.H. **272**, 745 (**97**, 355)

Imaging with INTEGRAL

Dean, A.J. **272**, 745 (**97**, 361)

High energy spectroscopy with the AXAF

Holt, S.S. **272**, 745 (**97**, 367)

Gamma-ray imaging with germanium detectors

Mahoney, W.A., Callas, J.L., Lin, J.C., Radocinski, R.G., Skelton, R.T., Varnell, L.S., Wheaton, W.A. **272**, 746 (**97**, 385)

Analysis of large deflection zoom mirrors for the ESO Very Large Telescope Interferometer

Ferrari, M., Lemaître, G. **274**, 12

Surface adjustment of the KOSMA 3 m telescope using phase retrieval "holography"

Fuhr, W., Staguhr, J., Schulz, A., Hills, R.E., Lasenby, A.N., Lasenby, J., Miller, M., Schieder, R., Stutzki, J., Vowinkel, B., Winnewisser, G. **274**, 975

An investigation of holographic correctors for astronomical telescopes

Lemelin, G., Lessard, R.A., Borra, E.F. **274**, 983

Holographic measurement on Medicina radio telescope using artificial satellites at 11 GHz

Tarchi, D., Comoretto, G. **275**, 679

Coded masks with two spatial scales

Skinner, G.K., Grindlay, J.E. **276**, 673

An interferometric approach to the measurement of the diffuse light from optical surfaces and systems

Greco, V., Molesini, G., Quercioli, F., Righini, A. **277**, 345

First results obtained within the European "LAMA" programme (Large Active Mirrors in Aluminium)

Rozelot, J.P. **278**, L35

On the correction of the aberrations of a liquid-mirror telescope observing at large zenith angles

Borra, E.F. **278**, 665

Multi-task guiding system of the Mt. Suhora Observatory

Krzesiński, J., Wójcik, K. **280**, 338

Time

Accurate procedure for deriving UT1 at a submilliarcsecond accuracy from Greenwich Sidereal Time or from the stellar angle

Capitaine, N., Gontier, A.-M. **275**, 645

Analytical relativistic transformations between reference systems

Brumberg, V.A., Bretagnon, P., Francou, G. **275**, 651

Comparison between theories of nutation for a rigid-Earth model

Souchay, J. **276**, 266

Quasi-biennial oscillation in green corona activity and Earth's rotation

Djurovic, D., Pâquet, P. **277**, 669

Turbulence

Refractive interstellar scintillations and low frequency variability: a detailed analysis using measured source structures

Spangler, S.R., Eastman, W.A., Gregorini, L., Mantovani, F., Padrielli, L. **267**, 213

Rotational effects on convection simulated at different latitudes

Pulkkinen, P., Tuominen, I., Brandenburg, A., Nordlund, Å., Stein, R.F. **267**, 265

The effect of convection on two temperature soft photon Comptonized accretion disks

Meirelles Filho, C. **267**, 651

Alpha-effect and alpha-quenching

Rüdiger, G., Kichatinov, L.L. **269**, 581

Dynamo-driven accretion in galaxies

Rüdiger, G., Elstner, D., Schultz, M. **270**, 53

Turbulent power spectra of solar granulation

Espagnet, O., Muller, R., Roudier, T., Mein, N. **271**, 589

Helicity fluctuations in mean field theory: an explanation for the variability of the solar cycle?

Hoyng, P. **272**, 321

Damping of solar p-mode oscillations. I. Radial modes with eddy viscosity

Stix, M., Rüdiger, G., Knölker, M., Grabowski, U. **272**, 340

Condensations in a self-gravitating flow: from gravito-acoustic waves to bound structures

Chantry, P., Grappin, R., Léorat, J. **272**, 555

Random velocity field corrections of the f -mode. II. Vertical and horizontal flow

Murawski, K., Roberts, B. **272**, 601

Distribution of magnetic energy in $\alpha\Omega$ -dynamos. III. A localized solar dynamo

van Geffen, J.H.G.M. **274**, 534

Mean-field buoyancy

Kichatinov, L.L., Pipin, V.V. **274**, 647

A -effect and differential rotation in stellar convection zones

Kichatinov, L.L., Rüdiger, G. **276**, 96

A unified stellar jet/molecular outflow model

Raga, A.C., Cantó, J., Calvet, N., Rodríguez, L.F., Torrelles, J.M. **276**, 539

Atmospheric motions in classical Cepheid stars. I. The star of reference: δ Cephei

Breitfellner, M.G., Gillet, D. **277**, 524

Atmospheric motions in classical Cepheid stars. II. The pre-resonance Cepheids: η Aquilae, S Sagittae

Breitfellner, M.G., Gillet, D. **277**, 541

Atmospheric motions in classical Cepheid stars. III. A very large amplitude star: X Cygni

Breifellner, M.G., Gillet, D. 277, 553

A study of three-dimensional turbulent compressible convection in a deep atmosphere at various Prandtl numbers

Singh, H.P., Chan, K.L. 279, 107

Anomalous diffusion of cosmic rays across the magnetic field

Chuvilgin, L.G., Ptuskin, V.S. 279, 278

Stellar pulsations with stochastic driving

Buchler, J.R., Goupil, M.-J., Kovács, G. 280, 157

Dynamics of slender fluxtubes in accretion disks. I. Basic theory

Schramkowski, G.P., Achterberg, A. 280, 313

Ultraviolet: galaxies

Coordinated UV-optical observations of quasars: the evolution of the Lyman absorption

Cristiani, S., Giallongo, E., Buson, L.M., Gouiffes, C., La Franca, F. 268, 86

Studies of narrow polar rings around E galaxies. II. The UV spectrum of AM 2020-504

Arnaboldi, M., Capaccioli, M., Barbaro, G., Buson, L., Longo, G. 268, 103

NGC 5548: a perfect laboratory for testing AGN models?

Rokaki, E., Collin-Souffrin, S., Magnan, C. 272, 8

The ultraviolet to soft X-ray bump of Seyfert 1 type active galactic nuclei

Walter, R., Fink, H.H. 274, 105

Crossing the Lyman valley: how many UV-bright high redshift quasars are there?

Picard, A., Jakobsen, P. 276, 331

Ultraviolet: general

Highly-excited levels of Fe I obtained from laboratory and solar Fourier transform and grating spectra. I. Energy levels

Nave, G., Johansson, S. 274, 961

Highly-excited levels of Fe I obtained from laboratory and solar Fourier transform and grating spectra. II. Laboratory and solar identifications

Nave, G., Johansson, S. 280, 346 (102, 269)

Ultraviolet: interstellar

Environment dependence of interstellar extinction curves

Jenniskens, P., Greenberg, J.M. 274, 439

Tracing the roots of interstellar mid-infrared emission

Jenniskens, P., Désert, F.-X. 275, 549

Intergalactic and galactic clouds on the line of sight to SN 1993J in M 81 seen in IUE spectra

de Boer, K.S., Rodriguez Pascual, P., Wamsteker, W., Sonneborn, G., Fransson, C., Bomans, D.J., Kirshner, R.P. 280, L15

Ultraviolet: solar system

Radial distribution of the OH radical in Halley's inner coma

Rousselot, P., Clairemidi, J., Moreels, G. 277, 653

Ultraviolet: stars

Ultraviolet spectroscopic variability of the WN 5 star HD 50896: timescales and linear physical dimensions of the perturbations

St-Louis, N., Howarth, I.D., Willis, A.J., Stickland, D.J., Smith, L.J., Conti, P.S., Garmany, C.D. 267, 447

Spectrophotometric behavior of 56 Arietis

Stepień, K., Czechowski, W. 268, 187

Radiative energy flux changes of Pleione in the far-UV through the Be-shell \rightarrow Be transition

Doazan, V., de la Fuente, A., Barylak, M., Cramer, N., Mauron, N. 269, 415

A far UV investigation of luminous hot stars in the SMC cluster NGC 330

Caloi, V., Cassatella, A., Castellani, V., Walker, A. 271, 109

Rotational modulation and flares on RS Canum Venaticorum and BY Draconis stars. XVII. UV spectroscopy and optical photometry of AU Microscopii in 1986

Quin, D.A., Doyle, J.G., Butler, C.J., Byrne, P.B., Swank, J.H. 272, 477

UV and X-ray emission in the interacting binary U Cephei

Giménez, A., Guinan, E.F., González-Riestra, R. 272, 739 (97, 261)

Ultraviolet spectroscopy of Nova Muscae 1991

Shrader, C.R., Gonzalez-Riestra, R., Cheng, F.H., Horne, K., Panagia, N., Gilmozzi, R., Lund, N. 272, 742 (97, 309)

Intrinsic UV colours of OB stars

Papaj, J., Krelowski, J., Wegner, W. 273, 575

Elemental abundances in normal late-B and HgMn stars from co-added IUE spectra. I. Iron-peak elements

Smith, K.C., Dworetzky, M.M. 274, 335

Ultraviolet observations of the circumstellar envelope of α^1 Herculis in the line of sight of α^2 Herculis

Thiering, I., Reimers, D. 274, 838

The accreting circumstellar gas envelope of HD 176386 a young star in the R Coronae Austrinae star formation region

Grady, C.A., Pérez, M.R., Thé, P.S. 274, 847

Extreme ultra violet plasma diagnostic: a test using EUVE calibration data

Landini, M., Monsignori Fossi, B.C. 275, L17

Evolution of SN 1987 A in the ultraviolet

Sanz Fernández de Córdoba, L. 276, 103

IUE observations of X-ray Nova Muscae 1991 during outburst

Shrader, C.R., Gonzalez-Riestra, R. 276, 373

Elemental abundances in normal late-B and HgMn stars from co-added IUE spectra. II. Magnesium, aluminium, and silicon

Smith, K. C. 276, 393

Cool stars: spectral energy distributions and model atmosphere fluxes

Morosi, C., Franchini, M., Malagnini, M.L., Kurucz, R.L., Buser, R. 277, 173

Bright blue stars in Vela observed with the "Glazar" space telescope

Tovmassian, H.M., Hovhannessian, R.K., Epreman, R.A., Huguenin, D. 277, 362 (100, 501)

Line blanketing by iron group elements in non-LTE model atmospheres for hot stars

Dreizler, S., Werner, K. 278, 199

Analysis of the DA white dwarf HZ 43 A and its companion star

Napiwotzki, R., Barstow, M.A., Fleming, T., Holweber, H., Jordan, S., Werner, K. 278, 478

Rotational modulation and flares on the RS Canum Venaticorum binary π Pegasi in July/September 1990: spots and flares on π Pegasi

Doyle, J.G., Mathioudakis, M., Murphy, H.M., Avgoloupis, S., Mavridis, L.N., Seiradakis, J.H. 278, 499

X-rays: bursts

Constraints on the illumination model for soft X-ray transients

Gontikakis, C., Hameury, J.-M. 271, 118

ROSAT and optical observations of two X-ray transients: MX 0836-42 and GS 0834-430

Belloni, T., Hasinger, G., Pietsch, W., Mereghetti, S., Bignami, G.F., Caraveo, P. 271, 487

SIGMA observations of two X-ray transients: KS 1731-260 and TrA X-1

Barret, D., Mandrou, P., Roques, J.P., Denis, M., Lebrun, F., Claret, A., Goldwurm, A., Laurent, P., Churazov, E., Gilfanov, M., Sunyaev, R., Bogomolov, A., Khavenson, N., Kuleshova, N., Tserenin, I., Sukhanov, K. **272**, 738 (97, 241)

Two transient X-ray sources observed with the WATCH experiment

Brandt, S., Castro-Tirado, A.J., Lund, N., Dremin, V., Lapshov, I., Sunyaev, R. **272**, 739 (97, 257)

Discovery of the high energy emission from the transient X-ray pulsar GRS 0834-430

Denis, M., Roques, J.P., Barret, D., Lei, F., Lebrun, F., Claret, A., Goldwurm, A., Leray, J.P., Churazov, E., Gilfanov, M., Sunyaev, R., Bogomolov, A., Khavenson, N., Kuleshova, N., Tserenin, I., Sukhanov, K. **272**, 743 (97, 333)

Two outbursts from A 0538-66 in the ROSAT All-Sky Survey

Mavromatakis, F., Haberl, F. **274**, 304

The soft γ -ray source 1E 1740.7-2942 revisited: SIGMA observation of a new transient activity beyond 200 keV

Cordier, B., Paul, J., Ballet, J., Goldwurm, A., Bouchet, L., Roques, J.P., Mandrou, P., Vedrenne, G., Churazov, E., Gilfanov, M., Sunyaev, R., Novikov, B., Chulkov, I., Kuleshova, N., Tserenin, I., Sheikhet, A. **275**, L1

Optical/UV counterpart of the supersoft transient X-ray source RX J0513.9-6951 in the Large Magellanic Cloud

Pakull, M.W., Motch, C., Bianchi, L., Thomas, H.-C., Guibert, J., Beaulieu, J.P., Grison, P., Schaeidt, S. **278**, L39

"Glitches" in soft X-ray transients: Echoes of the main burst?

Augusteijn, T., Kuulkers, E., Shaham, J. **279**, L13

The discovery and properties of the ultra-soft X-ray transient EXO 1846-031

Parmar, A.N., Angelini, L., Roche, P., White, N.E. **279**, 179

X-rays: galaxies

The contribution of quasars to the cosmic X-ray background

Zhou, Y.Y., Hu, Y.D., Yu, K.N., Young, E.C.M. **267**, 11

The proton blazar

Mannheim, K. **269**, 67

Formation and evolution of cluster cooling flows

Friaga, A.C.S. **269**, 145

Variability of the Seyfert galaxy Mkn 766 in the ROSAT All Sky Survey

Molendi, S., Maccacaro, T., Schaeidt, S. **271**, 18

X-ray emission and temperature profiles for optically selected models of elliptical galaxies

Bertin, G., Pignatelli, E., Saglia, R.P. **271**, 381

The distribution of dark matter in the A 2256 cluster

Henry, J.P., Briel, U.G., Nulsen, P.E.J. **271**, 413

NGC 5548: a perfect laboratory for testing AGN models?

Rokaki, E., Collin-Souffrin, S., Magnan, C. **272**, 8

Simulations of the evolution of galaxy clusters. II. Dynamics of the intra-cluster gas

Schindler, S., Müller, E. **272**, 137

Similarity of the variability patterns in the Exosat and Ginga folded light curves of the Seyfert galaxy NGC 6814

Abramowicz, M.A., Bao, G., Karas, V., Lanza, A. **272**, 400

SIGMA observations of extragalactic sources

Bassani, L., Jourdain, E., Roques, J.P., Mandrou, P., Ballet, J., Cordier, B., Lebrun, F., Paul, J., Finoginov, A., Churazov, E., Gilfanov, M., Sunyaev, R., Dyachkov, A., Khavenson, N., Novikov, B., Kuleshova, N. **272**, 729 (97, 89)

Hard X-ray observation of Centaurus A

Ubertini, P., Bazzano, A., Cocchi, M., La Padula, C., Sood, R. **272**, 730 (97, 105)

Identification of the sigma source near 3C 273: a new class of AGN?

Grindlay, J.E. **272**, 731 (97, 113)

X-ray polarimetry of AGNs with SXR

Massaro, E., Matt, G., Perola, G.C., Costa, E., Piro, L., Soffitta, P. **272**, 747 (97, 399)

X-ray emission from thin plasmas. I. Multiple Auger ionisation and fluorescence processes for Be to Zn

Kaastra, J.S., Mewe, R. **272**, 748 (97, 443)

X-ray spectral variability of the Seyfert galaxy NGC 4593

Ghosh, K.K., Soundararajaperumal, S. **273**, 397

High-redshift quasar Q1745+624 observed in the ROSAT All-Sky Survey

Fink, H.H., Briel, U.G. **274**, L45

The soft X-ray spectra of quasars and X-ray beaming models

Jackson, N., Browne, I.W.A., Warwick, R.S. **274**, 79

The ultraviolet to soft X-ray bump of Seyfert 1 type active galactic nuclei

Walter, R., Fink, H.H. **274**, 105

A deep X-ray survey in the Lockman Hole and the soft X-ray log N-log S

Hasinger, G., Burg, R., Giacconi, R., Hartner, G., Schmidt, M., Trümper, J., Zamorani, G. **275**, 1

X-ray and gamma-ray emission from active galactic nuclei

Cheng, K.S., Yu, K.N., Ding, K.Y. **275**, 53

Compton scattering of polarized light in two-phase accretion discs

Poutanen, J., Vilhu, O. **275**, 337

Detection statistics of Abell and ACO clusters of galaxies in the ROSAT All-Sky Survey

Ebeling, H., Voges, W., Böhringer, H., Edge, A.C. **275**, 360

X-ray luminosity and spiral fraction of nearby clusters of galaxies. Astrophysical consequences of an observational bias

Andreon, S. **276**, L17

X-ray emission from a complete sample of Abell clusters of galaxies

Briel, U.G., Henry, J.P. **278**, 379

Rapid X-ray variability in the 1 Zw 1 class object IRAS 13224-3809

Boller, T., Trümper, J., Molendi, S., Fink, H., Schaeidt, S., Caulet, A., Dennefeld, M. **279**, 53

X-rays: general

The contribution of quasars to the cosmic X-ray background

Zhou, Y.Y., Hu, Y.D., Yu, K.N., Young, E.C.M. **267**, 11

Innershell photoionization in the Be sequence: shake-up processes

Petrini, D., de Araújo, F.X. **271**, 679

The Compton Gamma Ray Observatory

Gehrels, N., Chipman, E., Kniffen, D.A. **272**, 724 (97, 5)

Overview of observations from BATSE on the Compton Observatory

Fishman, G.J., Meegan, C.A., Wilson, R.B., Paciesas, W.S., Pendleton, G.N., Harmon, B.A., Horack, J.M., Brock, M.N., Kouveliotou, C., Finger, M.H. **272**, 725 (97, 17)

X- and gamma-rays from the Galactic centre

Skinner, G.K. **272**, 733 (97, 149)

Studies of hard X-ray source variability using BATSE

Paciesas, W.S., Harmon, B.A., Pendleton, G.N., Finger, M.H., Fishman, G.J., Meegan, C.A., Rubin, B.C., Wilson, R.B. **272**, 739 (97, 253)

X-ray timing explorer mission

Bradt, H.V., Rothschild, R.E., Swank, J.H. **272**, 745 (97, 355)

High energy spectroscopy with the AXAF

Holt, S.S. **272**, 745 (97, 367)

X-ray monitor on INTEGRAL: astrophysics in the 4-100 ke V band

Ubertini, P., Bassani, L., Bazzano, A., Lund, N., Manzo, G., Mas, M., Smith, A., Soggiu, E., Staubert, R., Turner, M. **272**, 746 (97, 389)

Possible applications of CdTe detectors to high-energy astronomy

Caroli, E., Baldazzi, G., Bassani, L., Di Cocco, G., Dusi, W., Malaguti, G., Rossi, M., Spizzichino, A., Stephen, J.B., Trifoglio, M. **272**, 746 (97, 393)

SIXE (Spanish-Italian X-ray Experiment)

Giovannelli, F., Sabau Grazziati, L., La Padula, C., Errico, L., Frutti, M., Inarta, S., Mancini, D., Marozzi, S., Porzio, V., Vittonne, A.A. **272**, 747 (97, 395)

A deep X-ray survey in the Lockman Hole and the soft X-ray log N-log S

Hasinger, G., Burg, R., Giacconi, R., Hartner, G., Schmidt, M., Trümper, J., Zamorani, G. **275**, 1

Compton scattering of polarized light in two-phase accretion discs

Poutanen, J., Vilhu, O. **275**, 337

Coded masks with two spatial scales

Skinner, G.K., Grindlay, J.E. **276**, 673

ROSAT-pointed observations of two gamma-ray burst error boxes

Boër, M., Pizzichini, G., Hartmann, D., Hurley, K., Kouveliotou, C., Motch, C. **277**, 503

X-rays: interstellar

A dense H I filament in the local X-ray emitting plasma: ROSAT observation of LVC 88+36-2

Kerp, J., Herbstmeier, U., Mebold, U. **268**, L21

Gamma-ray burst quiescent counterparts in the ROSAT All-Sky Survey data

Boër, M., Greiner, J., Kahabka, P., Motch, C., Voges, W. **272**, 728 (97, 69)

Observations of the Galactic centre with the TTM instrument

Nottingham, M.R., Skinner, G.K., Willmore, A.P., Borozdin, K.N., Churazov, E., Sunyaev, R. **272**, 734 (97, 165)

A spectral code for X-ray spectra of supernova remnants

Kaastra, J.S., Jansen, F.A. **272**, 754 (97, 873)

X-rays from supernova remnants with particle acceleration

Dorfi, E.A., Böhringer, H. **273**, 251

X-rays: stars

Period variations and phase residuals in freely precessing stars

Bisnovatyi-Kogan, G.S., Kahabka, P. **267**, L43

The radio counterpart of the Z source GX 340+0

Penninx, W., Zwarthoed, G.A.A., van Paradijs, J., van der Klis, M., Lewin, W.H.G., Dotani, T. **267**, 92

Viscous-thermal evolution of free accretion disks around new born neutron stars

Mineshige, S., Nomoto, K., Shigeyama, T. **267**, 95

A spectroscopic ephemeris of the secondary star in the AM Herculis binary V 834 Centauri

Schwöpe, A.D., Thomas, H.-C., Beuermann, K., Reinsch, K. **267**, 103

An empirical torque noise and spin-up model for accretion-powered X-ray pulsars

Baykal, A., Ögelman, H. **267**, 119

Spectral and temporal properties of the X-ray pulsar SMC X-1 at hard X-rays

Kunz, M., Gruber, D.E., Kendziorra, E., Kretschmar, P., Maisack, M., Mony, B., Staubert, R., Döbereiner, S., Englhauser, J., Pietsch, W., Reppin, C., Trümper, J., Efremov, V.V., Kaniovsky, A.S., Kuznetsov, A., Sunyaev, R. **268**, 116

A new PG 1159 star discovered in the ROSAT XRT all sky survey: NLTE analysis of X-ray and optical spectra

Motch, C., Werner, K., Pakull, M.W. **268**, 561

Hard X-ray spectrum of 4U 1907+09

Chitnis, V.R., Rao, A.R., Agrawal, P.C., Manchanda, R.K. **268**, 609

ROSAT detection of stellar X-ray sources in the old open cluster M 67

Belloni, T., Verbunt, F., Schmitt, J.H.M.M. **269**, 175

Evolution of binaries with a low mass component immersed in a radiation field. I. Effect of irradiation by a millisecond pulsar companion

D'Antona, F., Ergma, E. **269**, 219

Optical studies of transient low-mass X-ray binaries. IV. A 10-hour distortion wave in the quiescent light curve of GS 2000+25

Chevalier, C., Ilovaisky, S.A. **269**, 301

Old isolated neutron stars: fire burns and cauldron bubbles

Treves, A., Colpi, M., Lipunov, V.M. **269**, 319

Discovery of a variable super soft X-ray source in the Large Magellanic Cloud during the ROSAT All-Sky Survey

Schaeidt, S., Hasinger, G., Trümper, J. **270**, L9

Recent phase changes in X Persei: optical, infrared and X-ray behaviour

Roche, P., Coe, M.J., Fabregat, J., McHardy, I.M., Norton, A.J., Percy, J.R., Reglero, V., Reynolds, A., Unger, S.J. **270**, 122

The 17.1-h optical and X-ray orbital period of AC 211/X 2127 + 119 in M 15

Ilovaisky, S.A., Aurière, M., Koch-Miramond, L., Chevalier, C., Cordoni, J.-P., Crowe, R.A. **270**, 139

The nature of the X-ray spectrum of VW Hydr

van Teeseling, A., Verbunt, F., Heise, J. **270**, 159

Accretion disk flares in energetic radiation fields. A model for hard X-rays from black hole candidates

van Oss, R.F., van den Oord, G.H.J., Kuperus, M. **270**, 275

Discovery of the bright eclipsing polar RX J2107.9-0518

Schwöpe, A.D., Thomas, H.-C., Beuermann, K. **271**, L25

Constraints on the illumination model for soft X-ray transients

Gontikakis, C., Hameury, J.-M. **271**, 118

ROSAT and optical observations of two X-ray transients: MX 0836-42 and GS 0834-430

Belloni, T., Hasinger, G., Pietsch, W., Mereghetti, S., Bignami, G.F., Caraveo, P. **271**, 487

T Chamaeleontis: a "weak-line" YY Orionis star?

Alcalá, J.M., Covino, E., Franchini, M., Krautter, J., Terranegra, L., Wichmann, R. **272**, 225

SIGMA soft γ -ray observations of 1E 1740.7-2942 in the spring of 1992: discovery of a sub-luminous state of emission and precise γ -ray position measurement

Cordier, B., Paul, J., Goldwurm, A., Laurent, P., Bouchet, L., Jourdain, E., Roques, J.P., Mandrou, P., Gilfanov, M., Churazov, E., Sunyaev, R., Khavenson, N., Dyachkov, A., Novikov, B., Kremnev, R., Kovtunenko, V. **272**, 277

Dynamics of the decay of confined stellar X-ray flares

Reale, F., Serio, S., Peres, G. **272**, 486

An extended correlation between the Balmer and soft X-ray emission from solar and stellar flares

Butler, C.J. **272**, 507

Overview of two-year observations with SIGMA on board GRANAT

Mandrou, P., Jourdain, E., Bassani, L., Vedrenne, G., Paul, J., Leray, J.-P., Lebrun, F., Ballet, J., Churazov, E., Gilfanov, M., Sunyaev, R., Bogomolov, A., Khavenson, N., Kuleshova, N., Tserenin, I., Sukhanov, K. **272**, 724 (97, 1)

Observations of the Galactic centre with the TTM instrument

Nottingham, M.R., Skinner, G.K., Willmore, A.P., Borozdin, K.N., Churazov, E., Sunyaev, R. **272**, 734 (97, 165)

- Hard X-ray observation of GRS 1758-258
Bazzano, A., Cocchi, M., La Padula, C., Sood, R., Ubertini, P. **272**, 734 (97, 169)
- Spectral states of 1E 1740.7-2942
Churazov, E., Gilfanov, M., Sunyaev, R., Dyachkov, A., Khavenson, N., Kovtunenko, V., Kremnev, R., Sukhanov, K., Niel, M., Bouchet, L., Mandrou, P., Roques, J.P., Cordier, B., Goldwurm, A., Lebrun, F., Leray, J.P. **272**, 734 (97, 173)
- VLA observations of the hard X-ray sources 1E 1740.7-2942 and GRS 1758-258
Mirabel, I.F., Rodríguez, L.F., Cordier, B., Paul, J., Lebrun, F. **272**, 735 (97, 193)
- Hard X-ray and gamma-rays from supernovae
Woosley, S.E. **272**, 736 (97, 205)
- Hard X-rays from binaries
Hameury, J.-M. **272**, 738 (97, 235)
- SIGMA observations of two X-ray transients: KS 1731-260 and TrA X-1
Barret, D., Mandrou, P., Roques, J.P., Denis, M., Lebrun, F., Claret, A., Goldwurm, A., Laurent, P., Churazov, E., Gilfanov, M., Sunyaev, R., Bogomolov, A., Khavenson, N., Kuleshova, N., Tserenin, I., Sukhanov, K. **272**, 738 (97, 241)
- Infrared and optical studies of Be star/X-ray binaries
Coe, M.J., Everall, C., Fabregat, J., Gorrod, M.J., Norton, A.J., Reglero, V., Roche, P., Unger, S.J. **272**, 738 (97, 245)
- X-ray variability of galactic black hole candidates
Mereghetti, S. **272**, 738 (97, 249)
- Two transient X-ray sources observed with the WATCH experiment
Brandt, S., Castro-Tirado, A.J., Lund, N., Dremine, V., Lapshov, I., Sunyaev, R. **272**, 739 (97, 257)
- UV and X-ray emission in the interacting binary U Cephei
Giménez, A., Guinan, E.F., González-Riestra, R. **272**, 739 (97, 261)
- Mechanisms of hard X-ray emission from accreting neutron stars
Kluźniak, W. **272**, 739 (97, 265)
- Observations of X-ray transient source GS 2023+338 with the TTM coded mask telescope
Pan, H.C., in't Zand, J.J.M., Skinner, G.K., Borozdin, K.N., Gilfanov, M.R., Sunyaev, R. **272**, 740 (97, 273)
- Multi-wavelength observations of phase changes in X Persei
Roche, P., Coe, M.J., Everall, C., Fabregat, J., Norton, A.J., Reglero, V., Unger, S.J. **272**, 740 (97, 277)
- Observations of black hole candidates with GRANAT
Grebenev, S., Sunyaev, R., Pavlinsky, M., Churazov, E., Gilfanov, M., Dyachkov, A., Khavenson, N., Sukhanov, K., Laurent, P., Ballet, J., Claret, A., Cordier, B., Jourdain, E., Niel, M., Pelaez, F., Schmitz-Fraysse, M.C. **272**, 740 (97, 281)
- Nova Muscae 1991, an exciting dwarf X-ray transient
Lund, N. **272**, 741 (97, 289)
- Hard emission from classical novae
Leising, M.D. **272**, 741 (97, 299)
- The spectra of Nova Muscae 1991 between 3 keV and 1 MeV observed with GRANAT
Gilfanov, M., Churazov, E., Sunyaev, R., Grebenev, S., Pavlinsky, M., Dyachkov, A., Kovtunenko, V., Kremnev, R., Goldwurm, A., Ballet, J., Laurent, P., Paul, J., Jourdain, E., Schmitz-Fraysse, M.C., Roques, J.P., Mandrou, P. **272**, 741 (97, 303)
- Ultraviolet spectroscopy of Nova Muscae 1991
Shrader, C.R., Gonzalez-Riestra, R., Cheng, F.H., Horne, K., Pagnagia, N., Gilmozzi, R., Lund, N. **272**, 742 (97, 309)
- WATCH observations of the X-ray pulsar GX 301-2
Castro-Tirado, A.J., Brandt, S., Lund, N., Dremine, V., Lapshov, I., Sunyaev, R. **272**, 743 (97, 329)
- Discovery of the high energy emission from the transient X-ray pulsar GRS 0834-430
Denis, M., Roques, J.P., Barret, D., Lei, F., Lebrun, F., Claret, A., Goldwurm, A., Leray, J.P., Churazov, E., Gilfanov, M., Sunyaev, R., Bogomolov, A., Khavenson, N., Kuleshova, N., Tserenin, I., Sukhanov, K. **272**, 743 (97, 333)
- Observation of the X-ray pulsar A 0535+26 with the FIGARO II experiment
Olive, J.F., Agrinier, B., Barouch, E., Comte, R., Costa, E., Cusumano, G.C., Gerardi, G., Mandrou, P., Masnou, J.L., Massaro, E., Matt, G., Mineo, T., Niel, M., Parlier, B., Sacco, B., Salvati, M., Scarsi, L. **272**, 743 (97, 335)
- A ROSAT observation of the black hole candidate GRO J0422+32
Pietsch, W., Haberl, F., Gehrels, N., Petre, R. **273**, L11
- Optical spectra of He 3-640 (A 1118-61) after the January 1992 X-ray outburst
Polcaro, V.F., Villada, M., Giovannelli, F. **273**, L49
- Detection of two new supersoft X-ray sources in the Large Magellanic Cloud
Orio, M., Ögelman, H. **273**, L56
- Compton modelling of spectral variations observed in Z sources
Schulz, N.S., Wijers, R.A.M.J. **273**, 123
- Hercules X-1 during the ROSAT All-Sky Survey
Mavromatakis, F. **273**, 147
- Detection of ^{57}Co γ -rays from SN 1987A and prospect of X-ray observations of the pulsar with ASUKA
Kumagai, S., Nomoto, K., Shigeyama, T., Hashimoto, M., Itoh, M. **273**, 153
- Geminga: relative phases of the X-ray and γ -ray pulses
Becker, W., Brazier, K.T.S., Trümper, J. **273**, 421
- Loop modeling of coronal X-ray emission from AR Lacertae
Ottmann, R. **273**, 546
- Erratum: Radio and X-ray emission from main-sequence K stars
Güdel, M. **273**, 719
- Erratum: The nature of the X-ray spectrum of VW Hydri
van Teeseling, A., Verbunt, F., Heise, J. **273**, 721
- The ROSAT detection of RS Ophiuchi at quiescence
Orio, M. **274**, L41
- Two outbursts from A 0538-66 in the ROSAT All-Sky Survey
Mavromatakis, F., Haberl, F. **274**, 304
- A self-consistent solution for an accretion disc structure around a rapidly rotating non-magnetized star
Bisnovaty-Kogan, G.S. **274**, 796
- X-ray emission from the collision of the ejecta with the ring nebula around SN 1987A
Suzuki, T., Shigeyama, T., Nomoto, K. **274**, 883
- The soft γ -ray source 1E 1740.7-2942 revisited: SIGMA observation of a new transient activity beyond 200 keV
Cordier, B., Paul, J., Ballet, J., Goldwurm, A., Bouchet, L., Roques, J.P., Mandrou, P., Vedrenne, G., Churazov, E., Gilfanov, M., Sunyaev, R., Novikov, B., Chulkov, I., Kuleshova, N., Tserenin, I., Sheikhet, A. **275**, L1
- The X-ray time variability and spectrum of γ Cassiopeiae (X 0053+604)
Parmar, A.N., Israel, G.L., Stella, L., White, N.E. **275**, 227
- Spectroscopic and photometric variability of Cygnus X-3
van Kerkwijk, M.H. **276**, L9
- Discovery of the optical counterpart of the soft X-ray transient GRO J0422+32
Castro-Tirado, A.J., Pavlenko, E.P., Shlyapnikov, A.A., Brandt, S., Lund, N., Ortiz, J.L. **276**, L37
- The orbit and pulse period of X 1538-522 from Ginga observations
Corbet, R.H.D., Woo, J.W., Nagase, F. **276**, 52

- The 0.1–2.5 keV X-ray spectrum of the O4f star ζ Puppis
 Hillier, D.J., Kudritzki, R.P., Pauldrach, A.W., Baade, D., Cassinelli, J.P., Puls, J., Schmitt, J.H.M.M. **276**, 117
- The X Persei system in the ROSAT All-Sky survey
 Mavromatakis, F. **276**, 353
- Structure and evolution of X-ray heated compact binaries
 Hameury, J.-M., King, A.R., Lasota, J.-P., Raison, F. **277**, 81
- ROSAT all-sky X-ray survey of the core region of the Pleiades cluster
 Schmitt, J.H.M.M., Kahabka, P., Stauffer, J., Pters, A.J.M. **277**, 114
- A search for yellow young disk population stars among EMSS stellar X-ray sources by means of lithium abundance determination
 Favata, F., Barbera, M., Micela, G., Sciortino, S. **277**, 428
- MS 1603.6+2600: a unique low-luminosity X-ray binary?
 Ergma, E., Vilhu, O. **277**, 483
- Optical/UV counterpart of the supersoft transient X-ray source RX J0513.9–6951 in the Large Magellanic Cloud
 Pakull, M.W., Motch, C., Bianchi, L., Thomas, H.-C., Guibert, J., Beaulieu, J.P., Grison, P., Schaeidt, S. **278**, L39
- Low-mass X-ray binary models for the supersoft X-ray sources CAL 83, CAL 87 and RX J0527.8–6954 in the Large Magellanic Cloud
 Kylafis, N.D., Xilouris, E.M. **278**, L43
- The observability of old isolated neutron stars with ROSAT. II. Molecular clouds and deep fields
 Colpi, M., Campana, S., Treves, A. **278**, 161
- Can high-energy γ -ray photons escape from the radiation field emitted by an accretion disk?
 Bednarek, W. **278**, 307
- Photon spectrum and period evolution of GX 1+4 as observed at hard X-ray energies by SIGMA
 Laurent, P., Salotti, L., Paul, J., Lebrun, F., Denis, M., Barret, D., Jourdain, E., Roques, J.P., Churazov, E., Gilfanov, M., Sunyaev, R., Diachkov, A., Khavenson, N., Novikov, B., Chulkov, I., Kuznetsov, A. **278**, 444
- Multifrequency observations of AB Doradus. X-ray flaring and rotational modulation of a young star
 Vilhu, O., Tsuru, T., Collier Cameron, A., Budding, E., Banks, T., Slee, B., Ehrenfreund, P., Foing, B.H. **278**, 467
- "Glitches" in soft X-ray transients: Echoes of the main burst?
 Augusteijn, T., Kuulkers, E., Shaham, J. **279**, L13
- Further ROSAT measurements of the period of 4U 1820–30
 van der Klis, M., Hasinger, G., Verbunt, F., van Paradijs, J., Belloni, T., Lewin, W.H.G. **279**, L21
- ROSAT-detection of a giant X-ray flare on LkH α 92
 Preibisch, T., Zinnecker, H., Schmitt, J.H.M.M. **279**, L33
- The discovery and properties of the ultra-soft X-ray transient EXO 1846-031
 Parmar, A.N., Angelini, L., Roche, P., White, N.E. **279**, 179
- Observations of stellar winds in high-mass X-ray binaries: evidence for a non-monotonic velocity structure
 Kaper, L., Hammerschlag-Hensberge, G., van Loon, J.T. **279**, 485
- Broad-band X-ray observations of the GRO J0422+32 X-ray nova by the "Mir-Kvant" observatory
 Sunyaev, R.A., Kaniovsky, A.S., Borozdin, K.N., Efremov, V.V., Aref'ev, V.A., Melioransky, A.S., Skinner, G.K., Pan, H.C., Kendziorra, E., Maisack, M., Döbereiner, S., Pietsch, W. **280**, L1
- A ROSAT observation of δ Orionis A
 Haberl, F., White, N.E. **280**, 519
- A high-frequency radio observation of NGC 6624
 Johnston, H.M., Kulkarni, S.R. **280**, 523